User's Guide

TRENDnet®

Megapixel PoE Day/Night PTZ Network Camera

TV-IP662PI

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Product Overview

TV-IP662PI

Package Contents

- TV-IP662PI
- Multi-Language Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Network cable (1.8m / 6ft)
- Power adapter (12V DC, 1A)
- Camera Mounting Kit

If any package contents are missing or damaged, please contact the retail store, online retailer, or reseller/distributor that the item was purchased.

Features

The Megapixel PoE Day/Night PTZ Network Camera, model TV-IP662PI, provides day and night monitoring over a large area. Pan and tilt the camera from a mobile device, record video to a Micro SD Card, and have camera email motion detection video clips. A wall/ceiling mounting kit is included and the camera's off white housing blends into most environments

Megapixel Video

Experience Megapixel 720p HD video with H.264 video compression

Night Vision

Night vision up to 7.5 meters (25 ft.) in complete darkness (indoor rating)

Dynamic DNS

Support for Dyn.com and NO-IP.com dynamic DNS service providers

PoE

No need to install this camera near a power source, power and data are received through a single Ethernet cable

PTZ

Pan, tilt, and zoom the camera from a mobile device

Preset Auto-Patrol

Define preset PTZ auto-patrol points

Digital Zoom

Zoom in by a factor of four

Motion and Sound Detection Emails

Receive email snapshots and video clips triggered by motion and sound

Mounting Hardware

Mounting bracket supports ceiling installation

Two-Way Audio

Built-in microphone and connect a third party speaker for two-way audio

Storage

Store video to a Micro SD card (up to 32 GB) or to a Samba server

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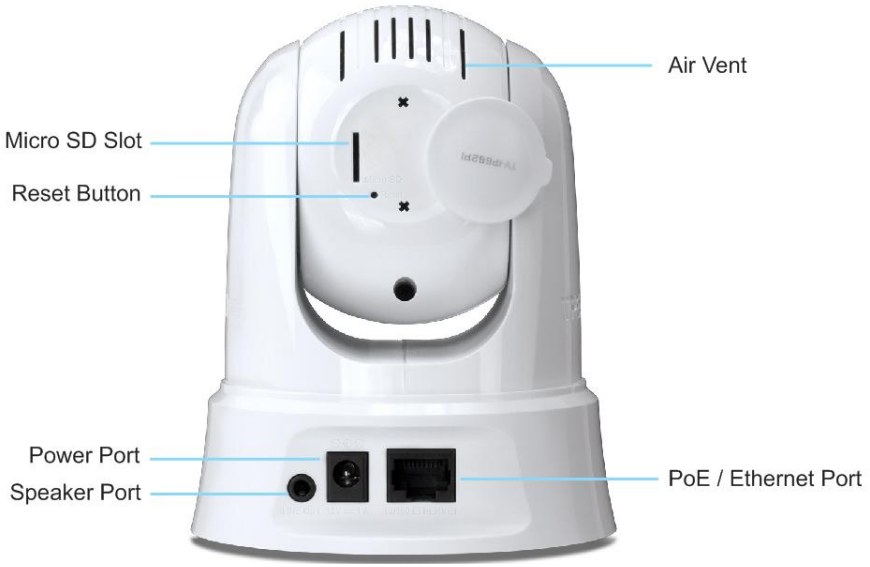
Product Hardware Features

Front Panel View

- **Light Sensor:** Detects the light source to turn IR on or off.
- **Focus Ring:** Turn to adjust the focus of the camera.
- **Microphone:** Built-in microphone for audio can be turned on or off.
- **IR LED** – Built-in 6 IR LED for night vision uses.
- **Camera Lens:** Focal Length: 4.6 mm, F2.0; Focal Depth: 20 cm – infinity
- **Power/Link LED:** This LED indicator is solid blue when your camera is powered on. If this LED indicator is off, there is no power to your camera. This LED indicator is blinking green when there is connection/data to your camera.

Rear Panel View



- **Micro SD Slot** – Insert a micro SD card into this slot to store video/image data.
- **Reset Button** – Use an item such as a paperclip to push and hold this button for 6 seconds and release to reset your camera to its factory defaults.
- **Power Port** – Connect the included power adapter from your camera to an available power outlet. **Note**: Use only the adapter that came with your camera.
- **Speaker Port** – Connects an external active speaker.
- **Air Vent** – This is to cool the camera.
- **PoE / Ethernet Port** – Connect Ethernet cables to your wired network devices.

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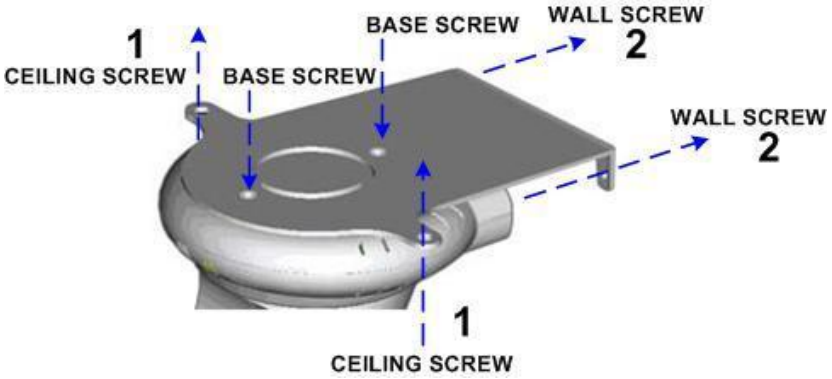
Wall mount installation

Please do not mount the camera until after you complete the installation steps from the CD-ROM. Temporarily place the camera next to your computer.

To attach the metal plates carry out the following:

- Remove the two rubber pads under the base of the Camera.
- Slide the metal plate onto the base of the camera, making sure that the two holes on the base of the camera align with the two screw holes on the base of the camera.
- Secure the metal plate to the base of the Camera with the two screws provided.
- The camera can now be mounted to the ceiling or a wall. See the diagram below for more information.



Power over Ethernet (PoE) Injector

A Power over Ethernet (PoE) Injector (sold separately) is designed to supply power to PoE Access Points, TV-IP662PIs or other PoE Powered Devices (PDs) through the Ethernet cable. We recommend the TRENDnet TPE-113GI Gigabit Power over Ethernet (PoE) injector. This product is sold separately. More details are available on the TRENDnet web site.

To setup a TRENDnet PoE injector (TPE-113GI) with the TV-IP662PI, connect one end of an ordinary RJ45 cable to the PoE port at the back of the injector, and the other end of the Ethernet cable to the TV-IP662PI.

Wait for the camera to generate power from the PoE injector, the LED at the front of the camera will blink green when power is delivered. If you are not getting power from the injector, please check your equipment or read the PoE injector user manual.

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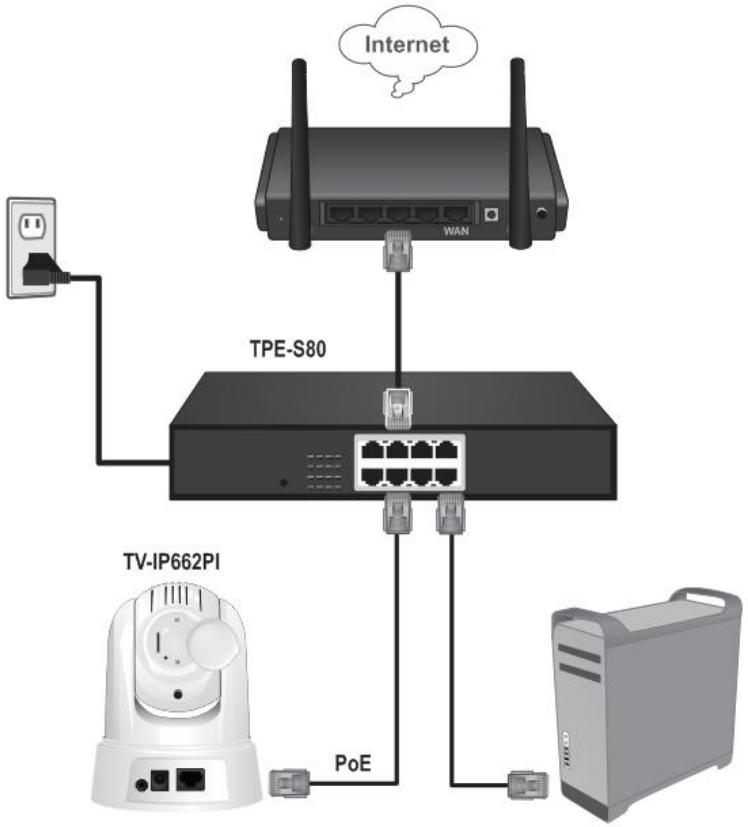
To setup a TRENDnet PoE switch (TPE-S80, sold separately) with the TV-IP662PI, connect one end of an ordinary Etherenet cable to one of the PoE ports, and the other end to the Ethernet port at the back of the camera.

As the image displays, connect the power cord to your TPE-S80. Then connect your TV-IP662PI to one of the PoE ports. Connect your computer to one of the non-PoE ports.



Using the Autorun Wizard

The Autorun supports both Windows & Mac operating systems. Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Autorun program. The Autorun Wizard program will run automatically.

For Windows users: If the autorun wizard does not run, go to the CD-ROM folder and run Autorun.exe to start installation wizard.

For Mac users: Please click **InstallWizard** to start installation wizard.

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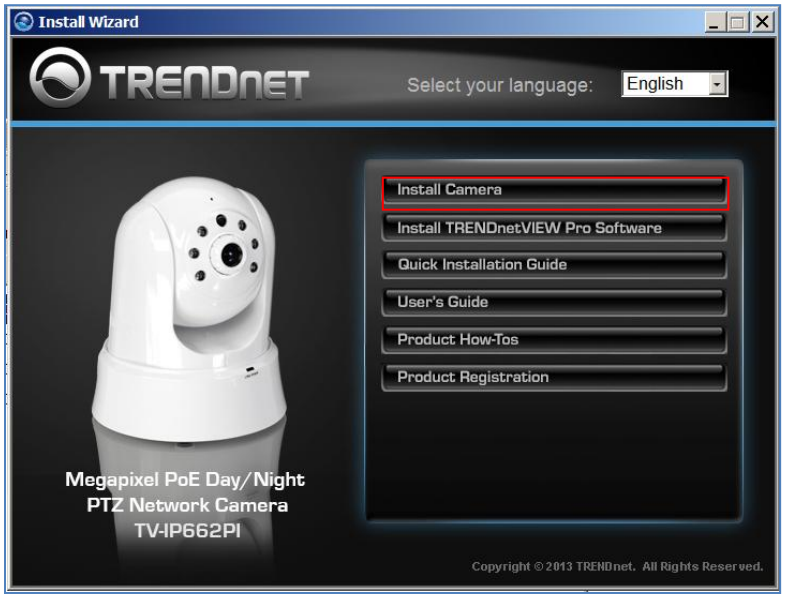
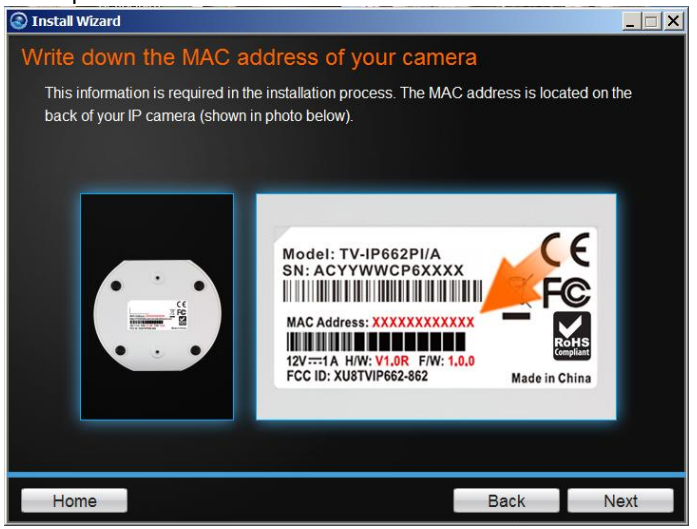
Begin by selecting a language from the drop-down list. There is a choice of five languages **– English, French, German, Spanish, and Russian**.

1. Click **Install Camera** and follow the on-screen steps to continue the installation.



2. This step references information on the camera itself. Go to your camera and check the details at the bottom of the device. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the main menu.


Install Wizard
Write down the MAC address of your camera
This information is required in the installation process. The MAC address is located on the back of your IP camera (shown in photo below).
Model: TV-IP662PI/A
SN: ACYYWWCP6XXXX
MAC Address: XXXXXXXXXXX
12V ⎓ 1 A H/W: V1.0R F/W: 1.0.0
FCC ID: XU8TVIP662-862
Made in China
Home
Back
Next

3. Follow the instructions in the next screen to **Power up the Camera**. Connect one end of the power adapter to the camera and watch the LED flicker. Click **Next** to continue.

Install Wizard
Power up the camera
If using PoE to supply power to the camera, please skip to the next step.
Plug in and connect the power adapter to the camera. The blue LED on the camera indicates it is powered. Allow 60 seconds for the camera to boot up.
LNK/PWR
Home
Back
Next

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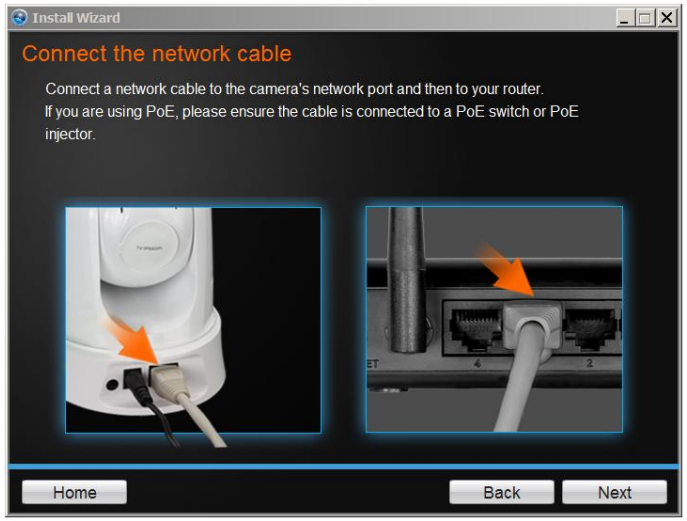
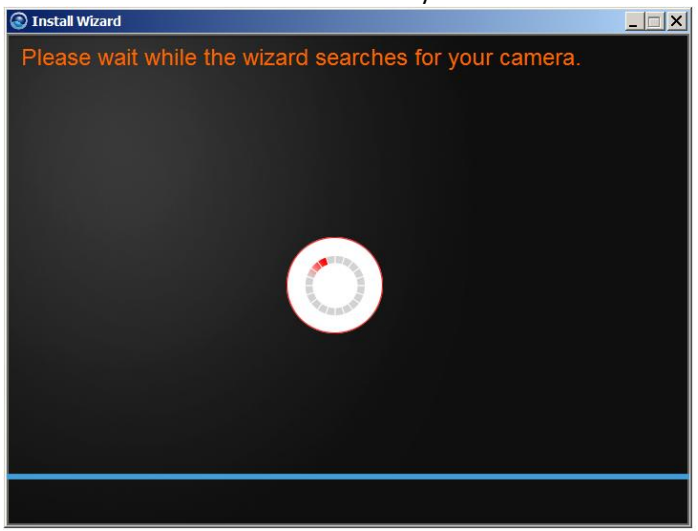
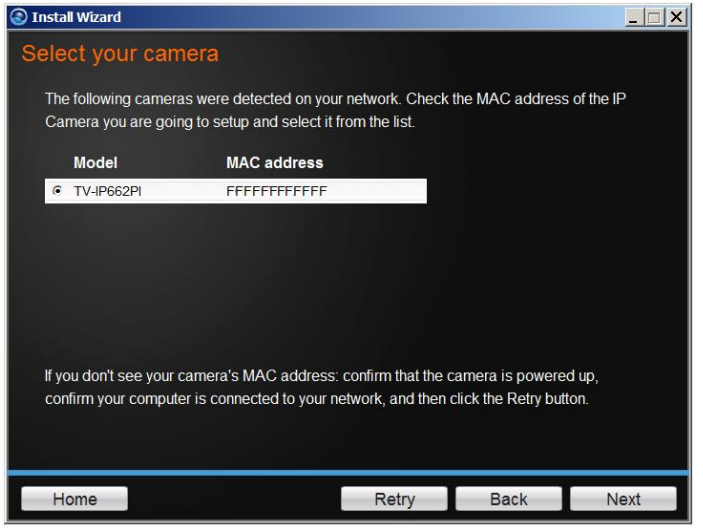
4. Connect one end of the network cable to your camera and the other end to your router. Click **Next** to continue.


Install Wizard
Connect the network cable
Connect a network cable to the camera's network port and then to your router.
If you are using PoE, please ensure the cable is connected to a PoE switch or PoE injector.
Home
Back
Next

5. The wizard will search the network for your camera.



6. If you only have one camera on your network, the wizard will automatically select it. Otherwise, if you have more than one camera, it will provide several options from the list. The wizard provides the **Model Name** and **MAC Address** of the camera. If you do not see any of your camera(s) in the wizard, click **Retry** to scan for the camera again. Click **Next** to continue.


Install Wizard
Select your camera
The following cameras were detected on your network. Check the MAC address of the IP Camera you are going to setup and select it from the list.
Model
MAC address
TV-IP662PI
FFFFFFFFFFFF
If you don't see your camera's MAC address: confirm that the camera is powered up, confirm your computer is connected to your network, and then click the Retry button.
Home
Retry
Back
Next

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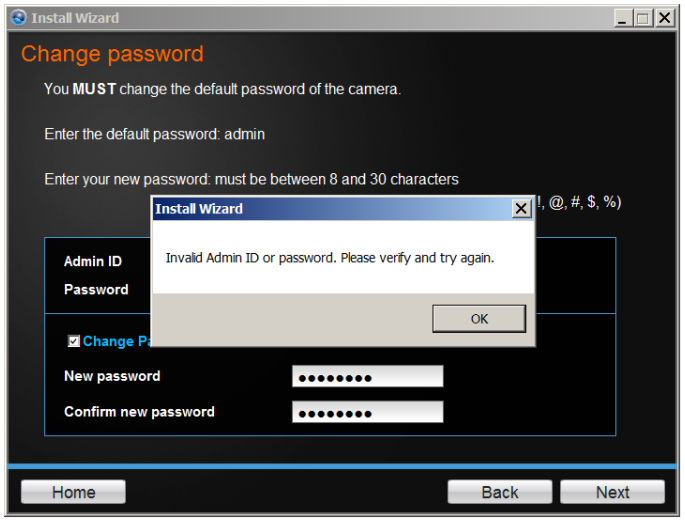
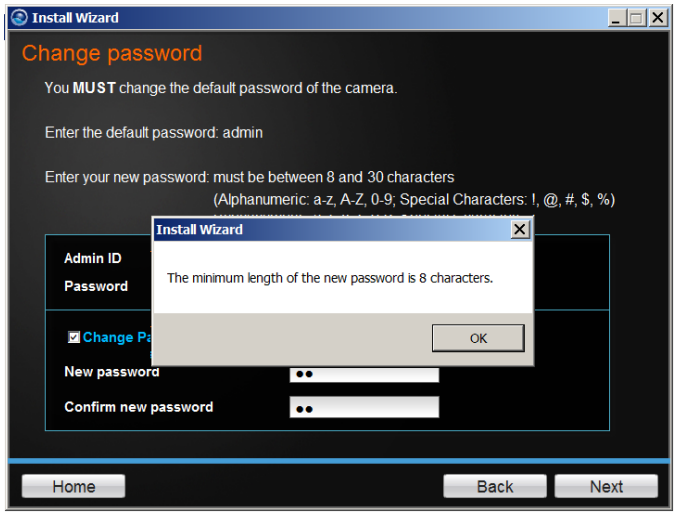
7. **Password Settings**. The default username and password is **admin**. Tick the **Change Password** checkbox to enter the new password details. The password should be between 8 and 30 characters. Click **Next** to continue.

Install Wizard
Change password
You MUST change the default password of the camera.
Enter the default password: admin
Enter your new password: must be between 8 and 30 characters
(Alphanumeric: a-z, A-Z, 0-9; Special Characters: !, @, #, $, %)
Admin ID
admin
Password
Change Password (If you have already changed the password, uncheck the box.)
New password
Confirm new password
Home
Back
Next

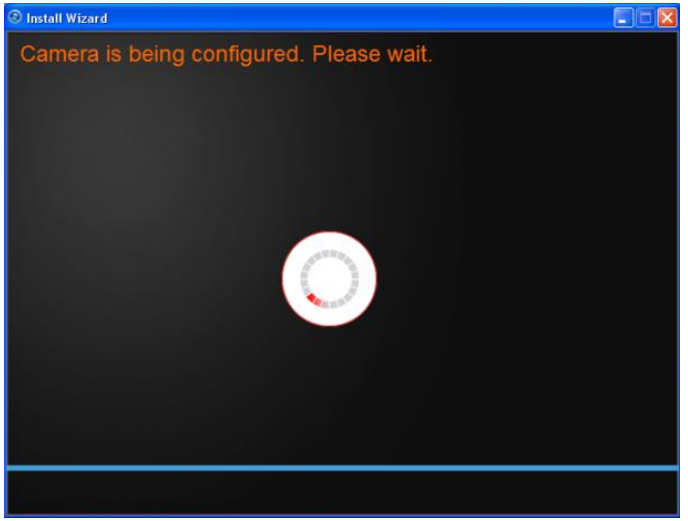
If you have entered the incorrect admin details, you are prompted to change the configuration, as shown below.



If the password length is less than 8 characters, you will also be prompted to alter the configuration, as shown below.


Install Wizard
Change password
You MUST change the default password of the camera.
Enter the default password: admin
Enter your new password: must be between 8 and 30 characters
(Alphanumeric: a-z, A-Z, 0-9; Special Characters: !, @, #, $, %)
Install Wizard
The minimum length of the new password is 8 characters.
OK
Admin ID
Password
New password
Confirm new password
Home
Back
Next

8. The wizard will configure your parameters.



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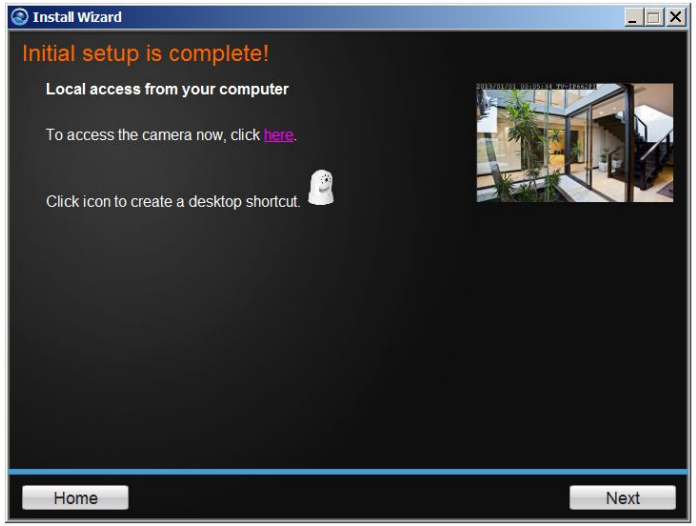
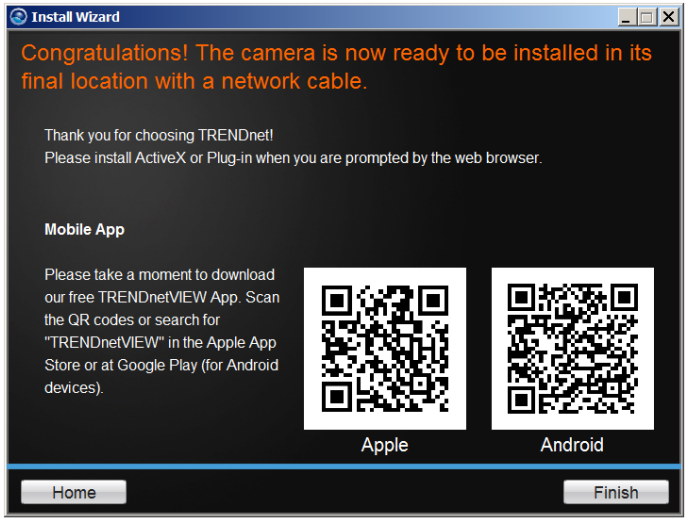
9. The initial setup is complete. Click the link to navigate to the camera's Web or click the product images to create a shortcut on your desktop for future access. Click **Next** to continue to the next step.



10. Scan the barcode to download the **TRENDnetVIEW App** for Apple iOS or Android™[1] devices. The app can also be found by searching TRENDnet from the Apple App Store or Google Play™[2].

    Please refer to the **Mobile Apps** section for additional app features information.


Install Wizard
Congratulations! The camera is now ready to be installed in its final location with a network cable.
Thank you for choosing TRENDnet!
Please install ActiveX or Plug-in when you are prompted by the web browser.
Mobile App
Please take a moment to download our free TRENDnetVIEW App. Scan the QR codes or search for "TRENDnetVIEW" in the Apple App Store or at Google Play (for Android devices).
Apple
Android
Home
Finish

    You are now ready to use your camera. Click **Finish** to exit.

[1] Android is a trademark of Google Inc.
[2] Google Play is a trademark of Google Inc.

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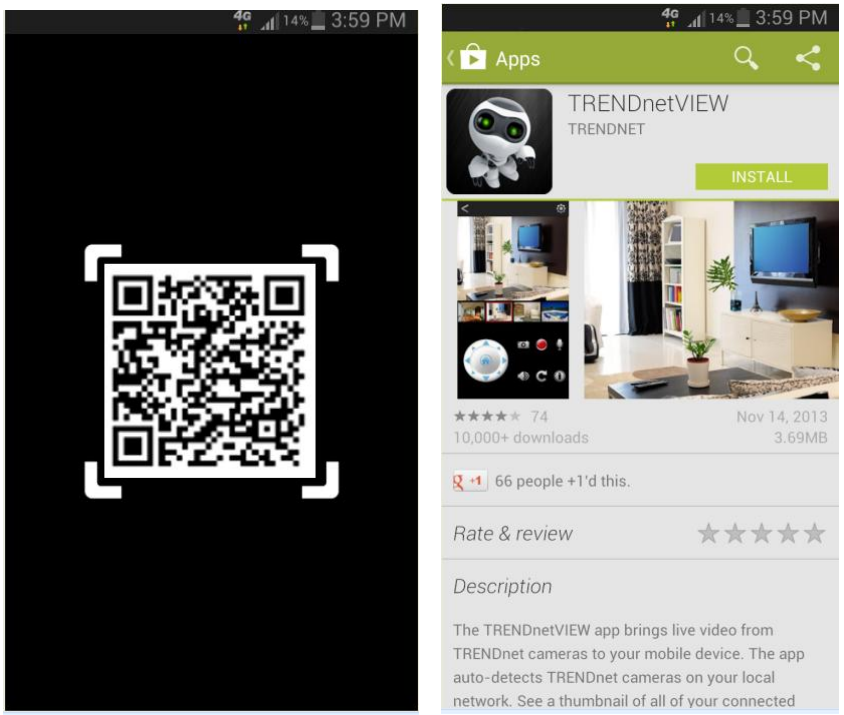
Mobile Apps

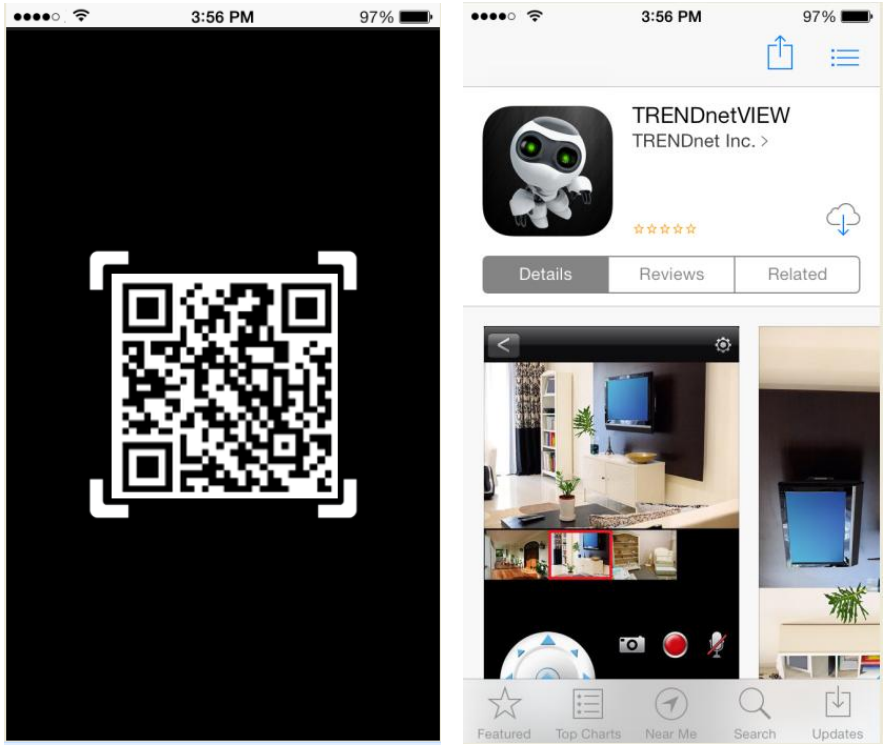
Using your mobile[3] device, in this example it is an **Android** phone, touch the **Bar Code** scanning app on your phone. Hold it up to the **QR Code** on the wizard that reads, **Android**, and scan the image. The **Bar Code** app will read the QR Code and record it.



The app will copy the QR link and provides a HTML link to the TRENDnet app. You will be directed to the **Google Play™ Storefront** to download the app. Download the app, install it and use the app on your mobile device to view the TRENDnet camera.

Here is Apple iTunes version

Scan the QR Code using one of IOS's QR Code apps. The app will automatically create an HTML link to the iTunes App Store. You will be immediately directed to the iTunes App Store. Click the link to download.



[3] Please refer to **Quick Installation Guide** that included in the CD-ROM to install the mobile applications or learn how to use mobile accessibility.

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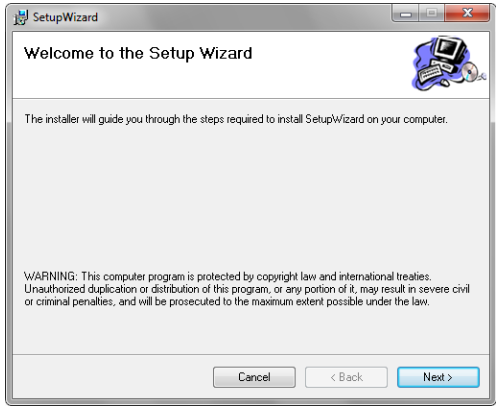
Setup Wizard (Finding IP address of the cameras)

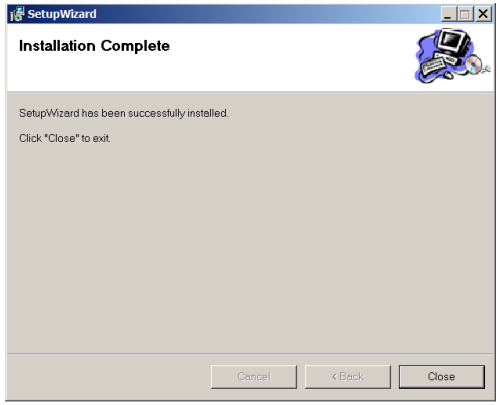
To locate the IP address of your camera(s) on the same network with your PC, please install the Setup Wizard utility (for Windows only) from the SetupWizard folder .

1. Insert the included CD-ROM into your CD/DVD drive, browse to the CD drive of the **SetupWizard** folder and run **SetupWizardSetup_1.2.3.4804.msi** to begin the installation wizard.

2. The following screen will show up. Click **Next** and following the screen to finish the installation.


SetupWizard
Welcome to the Setup Wizard
The installer will guide you through the steps required to install SetupWizard on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

3. Click **Close** to finish the installation.



4. Click **Start > Programs > TRENDnet > SetupWizard > SetupWizard.** The TRENDnet Setup Wizard appears.

5. Connect an RJ-45 cable from a switch/router to the Ethernet port on the back of the camera and connect the AC power adapter to the camera. Click Next to proceed.

TRENDnet
Setup Wizard
Install Your Camera
Connect a network cable to the camera's network port and then to your network. Connect the power adapter to the camera to provide power to the camera.
Next
Exit
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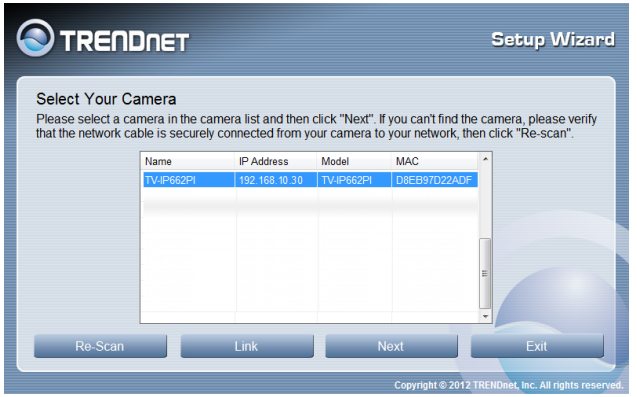
6. From the list of cameras that appears, select the camera and click **Next** to continue. If your camera is not listed, please ensure your camera is powered on and connected to the network then click **Re-Scan** to scan the camera from your network.



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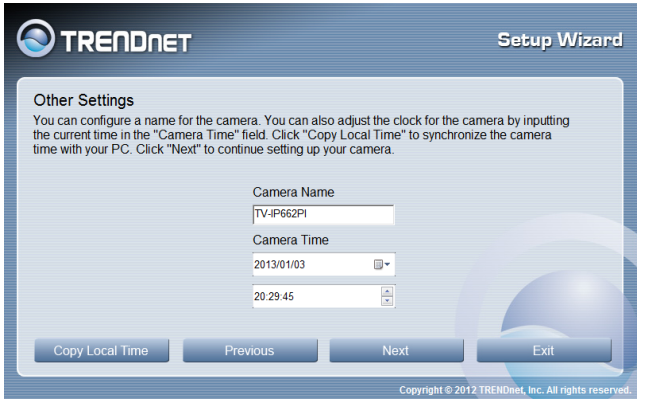
7. Login to your camera by entering the ID and Password. By default, both the ID and Password are set to **admin**. Click Next to continue.

8. It is strongly recommended that you change your password to secure the camera from being accessed by others. Check the **Change Password** box and enter the new password in both password fields to confirm the new password. Click **Next** to continue.

TRENDnet
Setup Wizard
Change Password
The default Admin ID and Password are both "admin". You must change the default password of the camera. Without the correct password, you will not be able to view the camera or change the camera settings. To change the default password, please check the box next to "Change Password". If the default password, "admin", has been changed already, please click on "Next".
Change Password
New Password
Confirm Password
(Please change the password for security purposes. The new password cannot be blank or "admin".)
Previous
Next
Exit
Copyright © 2012 TRENDnet, Inc. All rights reserved.

9. Enter a camera name, date and time. The name will be used to identify your camera on the network. If your camera is in the same time zone as the computer you are using, click the **Copy Local Time** icon to copy the local time to the camera. Click **Next** to continue.


TRENDnet
Setup Wizard
Other Settings
You can configure a name for the camera. You can also adjust the clock for the camera by inputting the current time in the "Camera Time" field. Click "Copy Local Time" to synchronize the camera time with your PC. Click "Next" to continue setting up your camera.
Camera Name
TV-IP662PI
Camera Time
2013/01/03
20:29:45
Copy Local Time
Previous
Next
Exit
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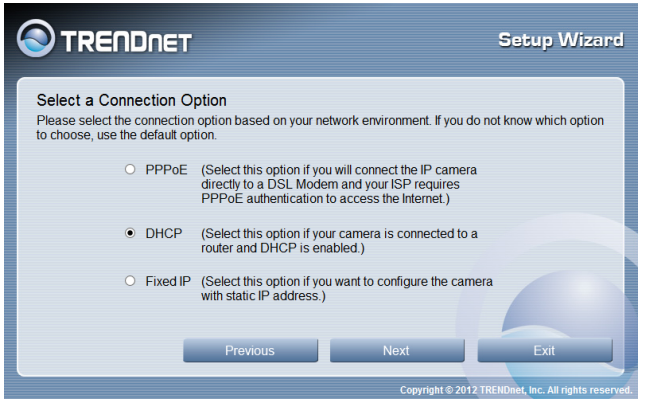
10. Select a connection option and click **Next** to continue.

PPPoE: Select this option if your camera is directly connected to a DSL modem and your ISP requires a PPPoE authentication to the Internet.
DHCP: Select this option if your camera is connected to a router and DHCP is enabled.
Fixed IP: Select this option if your wish to connected the camera via a fixed IP.


TRENDnet
Setup Wizard
Select a Connection Option
Please select the connection option based on your network environment. If you do not know which option to choose, use the default option.
PPPoE (Select this option if you will connect the IP camera directly to a DSL Modem and your ISP requires PPPoE authentication to access the Internet.)
DHCP (Select this option if your camera is connected to a router and DHCP is enabled.)
Fixed IP (Select this option if you want to configure the camera with static IP address.)
Previous
Next
Exit
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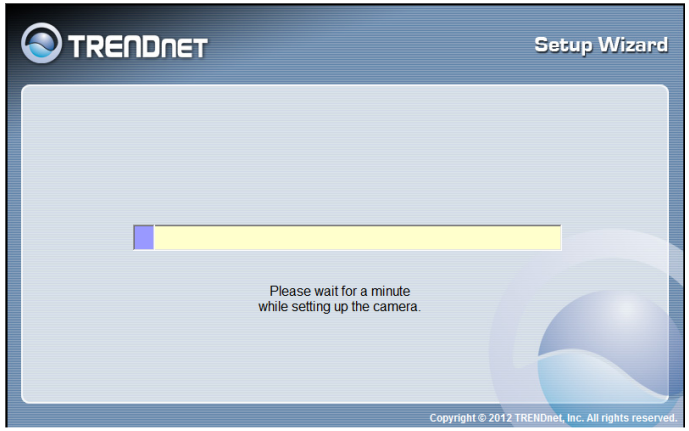
11. A summary screen of the settings you have chosen appears. Click Next to continue.

12. After the Setup Wizard configures the camera, the wizard starts to setup process.


TRENDnet
Setup Wizard
Please wait for a minute
while setting up the camera.
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13. When the Setup Wizard has finished, the configuration is complete and the following screen appears:

TRENDnet
Setup Wizard
Congratulations !
Your camera has been configured correctly.
Click the following URL or click "Link" to connect your camera via the web browser.
http://192.168.10.30:80
Link
Setup Another Camera
Exit
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Web Browser Management

After completing the Autorun Wizard from the CD, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your TV-IP662PI camera. Open a web browser such as Internet Explorer® and enter the IP address of your camera (through the setup wizard utility software on the CD). To log in, type the Username **admin** and the password you created in the Autorun Wizard. If you did not create a password or you just press the reset button for reset, the default password is **admin**. After entering your password, click **OK**.

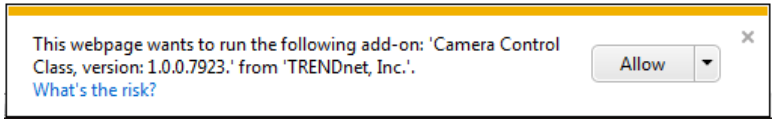
Note: By default, this camera obtains an IP address from a DHCP server on the local network. To find the IP address of the camera, consult the DHCP client list on the DHCP server on your wireless router or install the Setup Wizard utility software from CD. However, if there is no DHCP server available, the static default IP address of this camera is **192.168.10.30**, in case you are connecting the camera directly with your PC without another device in-between.

To log in, type the Username **admin** and the password you created in the Setup Wizard. If you did not create a password, the default password is **admin**. After entering your password, click **OK**.

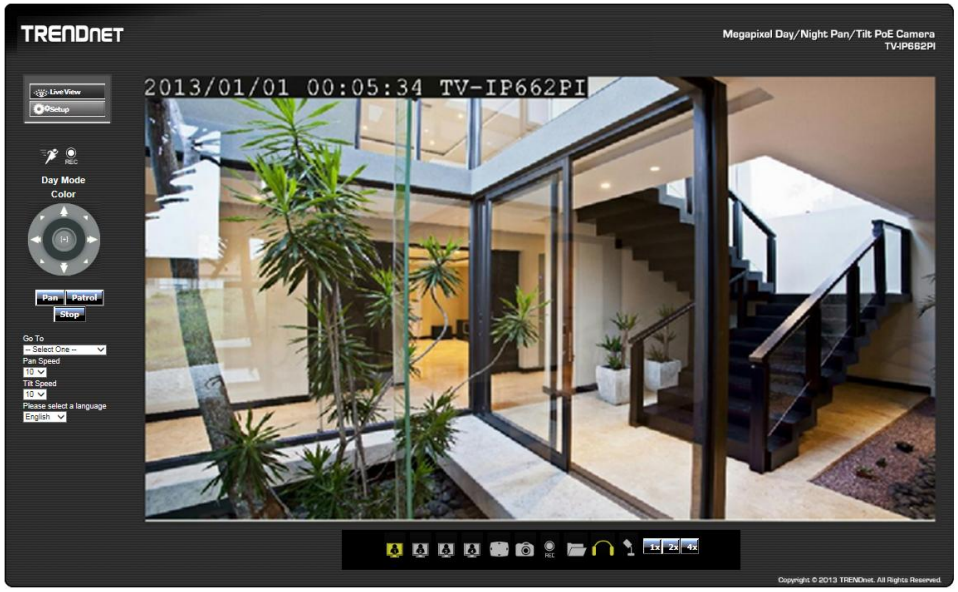
Windows Security
The server 192.168.10.30 is asking for your user name and password. The server reports that it is from TV-IP662PI.
admin
Remember my credentials
OK
Cancel

For Internet Explore Web Browser

After you have logged in, Internet Explorer will prompt you to install the camera add-on required. Click **Allow** to install the add-on.


This webpage wants to run the following add-on: 'Camera Control Class, version: 1.0.0.7923.' from 'TRENDnet, Inc.'.
What's the risk?
Allow

After the add-on was successfully installed, the **Live View** video feed will be displayed.



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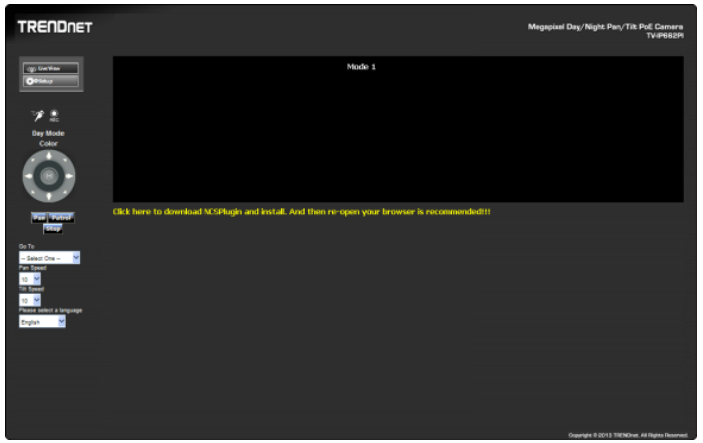
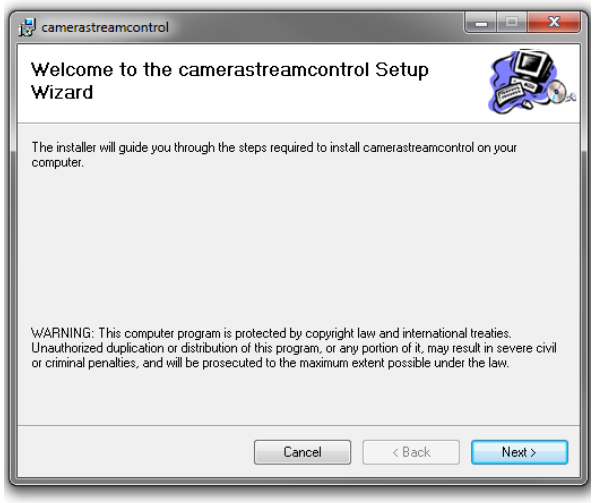
For Non-Internet Explore Web Browser

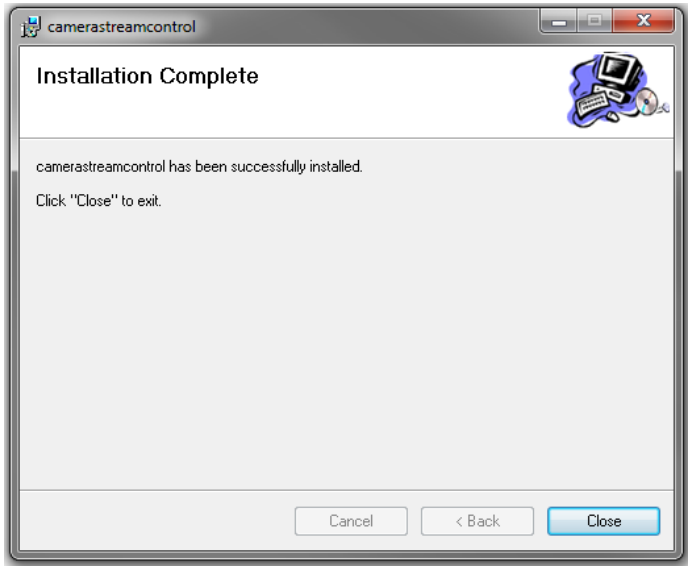
After you have logged in, you need to install the required plug-in. Click the link below the camera view finder to install the plug-in. Download the plug-in to a folder on the local PC and run the download plug-in file.



Click **Next** to continue.
Note: Please ensure all browsers are closed during the installation.


camerastreamcontrol
Welcome to the camerastreamcontrol Setup Wizard
The installer will guide you through the steps required to install camerastreamcontrol on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

Click **Close** to finish the installation.



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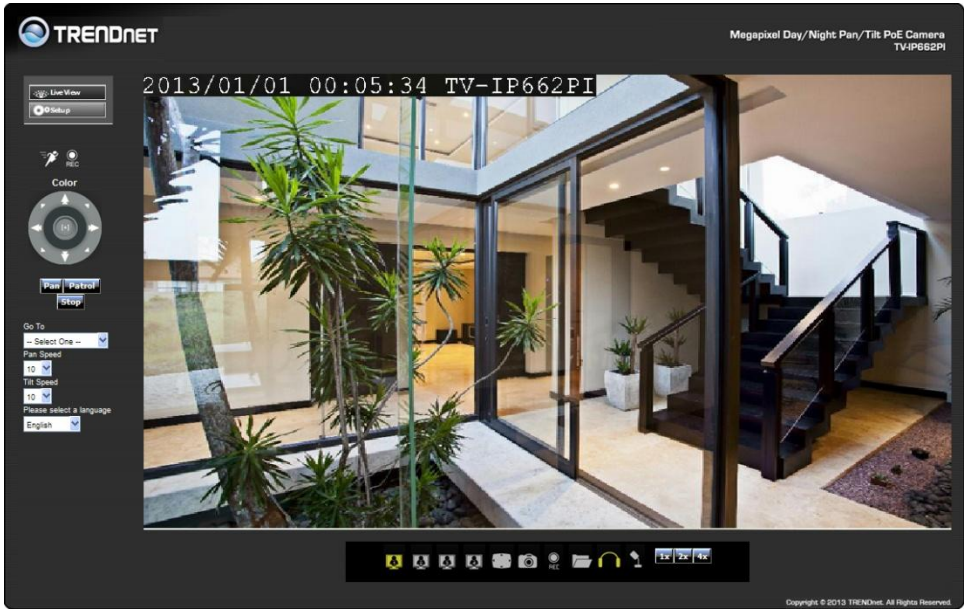
Main Web User Interface

After successfully logging into the Web User Interface of the camera, the following window will appear.



The following table describes all the icons and settings that can be configured on the Live View page:

Icon	Description
Live View	Click this button to view the live video feedback of this camera.
Setup	Click this button to access the setup pages for this camera.
	This icon is used to display the motion detection status of the current live video feed. This icon will be white when no motion is detected and will be yellow when motion is detected.
REC REC	This icon is used to display the recording status of the current live video feed. This icon will be white when not recording and will be yellow when recording.
Day Mode	Day Mode will be displayed when the camera is supplying video feed in a daylight (normal light) environment.
Night Mode	Night Mode will be displayed when the camera is supplying video feed in a night time (low light) environment.
Color	When the Day Mode is active, the video feed will be in color.
Black and White	When the Night Mode is active, the video feed will be in black and white.
[+]	This is the pan and tilt control panel. Click the left, right, up or down arrows to control the camera to pan or tilt in the direction needed. Also, for more accuracy, arrows are available in between the left, right, up and down arrows. Click the [+] button to return the camera to the home position.

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Icon	Description
	Click this button to initiate the automatic pan option. The camera will pan to the far left and then to the far right and then return to the home position.
	Click this button to initiate Patrol once continuously at selected pre-set positions.
	Click this button to immediately stop the pan or patrol options.
Go To	Select a pre-set position option here. The camera will then pan/tilt to the position selected.
Pan Speed	Select the pan speed value here.
Tilt Speed	Select the tilt speed value here.
Please select a language	Select the display language here. Options to choose from are English, German, Spanish, Russian, and French.
	Click this icon to view the video profile 1.
	Click this icon to view the video profile 2.
	Click this icon to view the video profile 3.
	Click this icon to view the video profile 4.
	Click this icon to view the video feed in the full screen mode.
	Click this icon to manually take a snapshot of the video feed.
	Click this icon to manually enable or disable video recording.

Icon	Description
	Click this icon to specify the video/snapshot storage folder on the local PC.
	Click this icon to enable or disable the audio feed from the camera.
	Click this icon to enable or disable the audio feed to the camera.
	Click this icon to manually toggle the video feed between the Day and the Night Modes.
	Click one of these options to digitally zoom the video feed by 1, 2 or 4 times.

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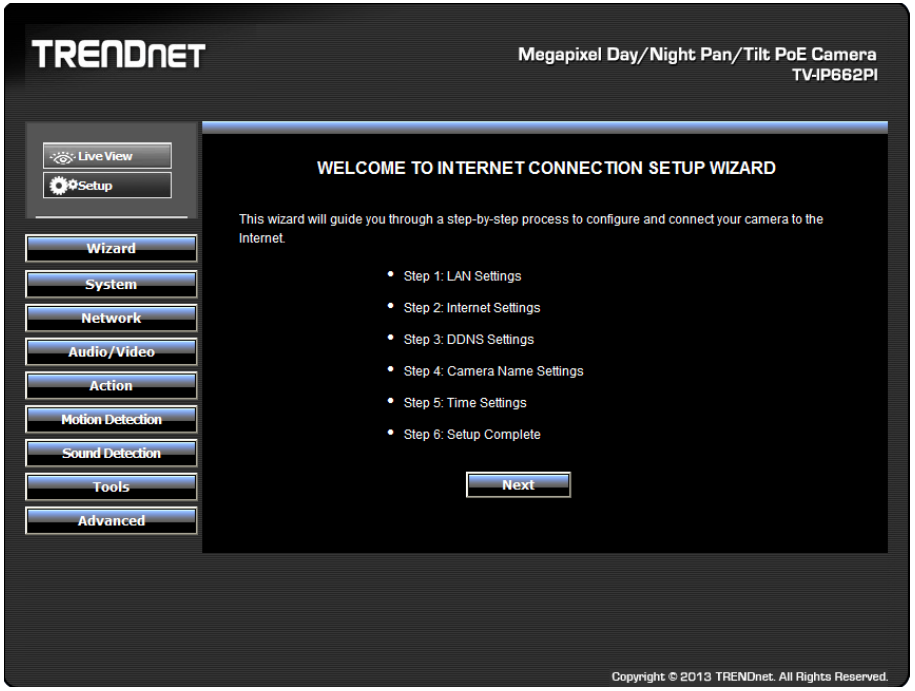
Setup

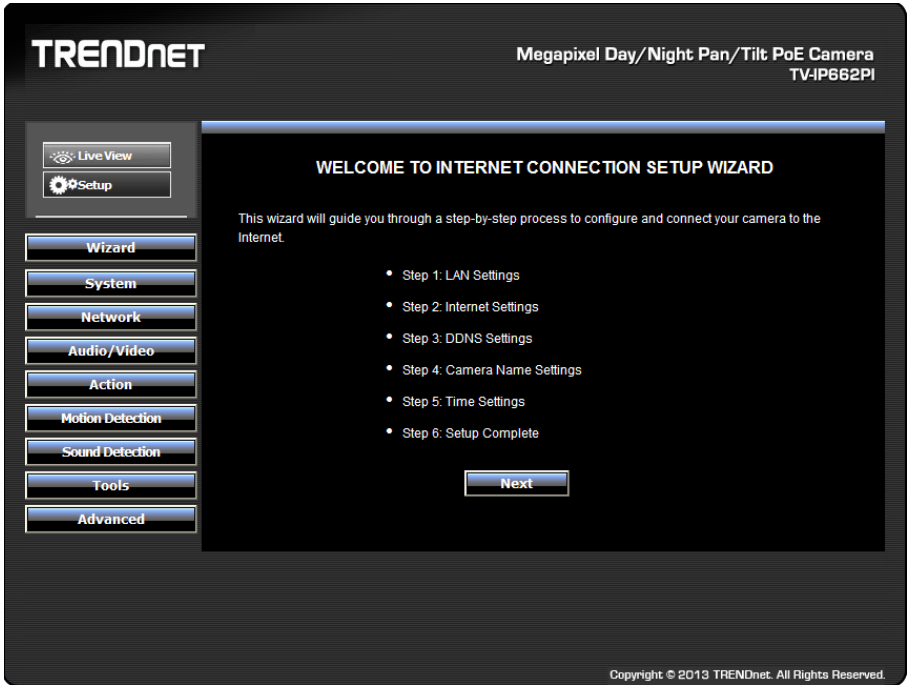
In the **Setup** section we can view and configure more advanced features available on the TV-IP662PI. After clicking the Setup button, the following page will be displayed.



In the left side of this page, there is a **Category** menu. Except for **Wizard**, **Motion Detection**, and **Sound Detection**, within each category, there are multiple pages available that is used to configure different types of features available on this camera.

Wizard

The wizard will guide users through a simplified step-by-step wizard to configure basic settings available on this camera. Click **Next** to continue.



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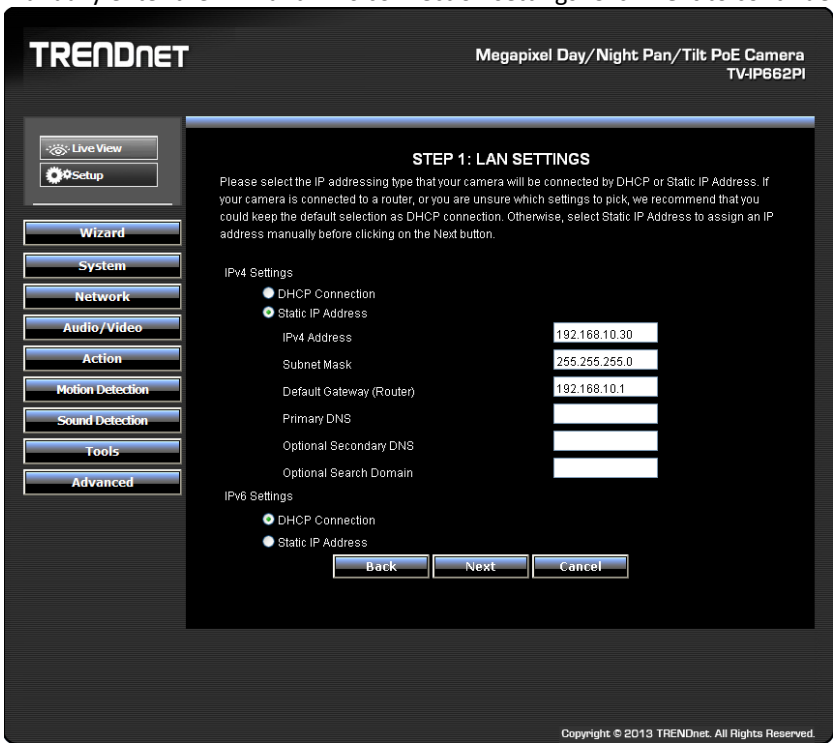
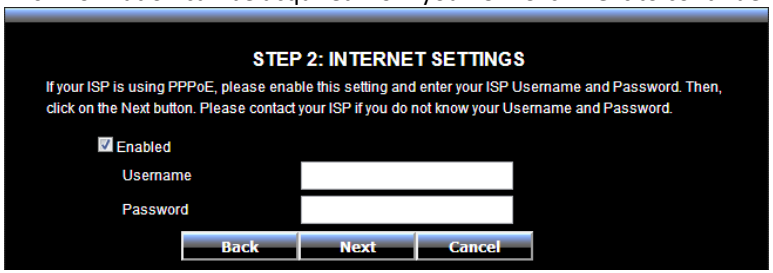
Step 1: LAN Settings

On this page users can configure the IPv4 and IPv6 connection settings for this camera. Select **DHCP Connection** to allow the camera to automatically obtain the IPv4 or IPv6 settings from a DHCP server on the local network, or select **Static IP Address** to manually enter the IPv4 and IPv6 connection settings. Click **Next** to continue.



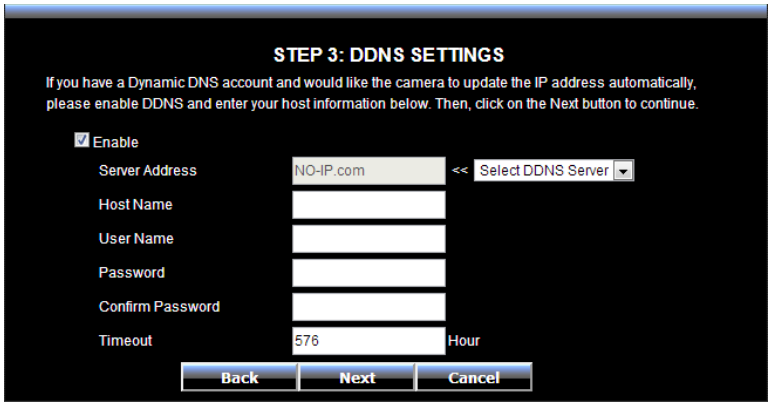
Step 2: Internet Settings

Click the checkbox to enable the Internet connection via PPPoE. On this page users can enter the PPPoE **Username** and **Password**. Click the checkbox to enable this feature. This information can be acquired from your ISP. Click **Next** to continue.


STEP 2: INTERNET SETTINGS
If your ISP is using PPPoE, please enable this setting and enter your ISP Username and Password. Then, click on the Next button. Please contact your ISP if you do not know your Username and Password.
Enabled
Username
Password
Back
Next
Cancel

Step 3: DDNS Settings

Click the checkbox to enable DDNS. In **Server Address**, select one of the domains from the drop-down menu. The field to the left of the drop-down menu automatically populates. Under **Host Name** enter the name the DDNS service provided. Enter a **Username** and **Password**, repeat the password and finally enter the **Timeout** value. Timeout states the time DDNS is updated. Click **Next** to continue.



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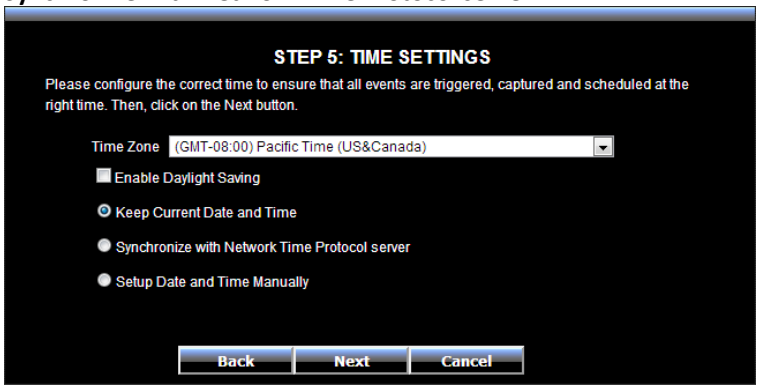
Step 4: Camera Name Settings

Enter a name for the camera. This feature is helpful when you have more than one camera setup. Click **Next** to continue.

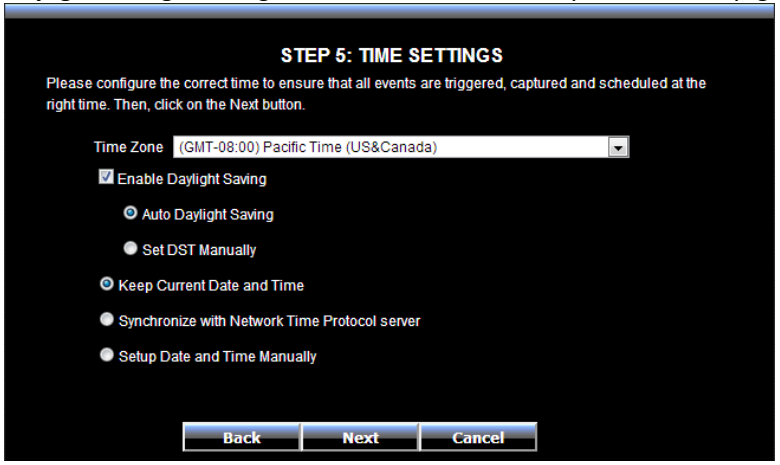
STEP 4: CAMERA NAME SETTINGS
We recommend that you rename your camera for easy accessibility. You can then identify and connect to your camera via this name. Please assign a name of your choice before clicking on the Next button.
Camera Name
TV-IP662PI
Back
Next
Cancel

Step 5: Time Settings

From the drop-down menu, select a **Time Zone**. To enable daylight saving time, click the checkbox next to **Enable Daylight Saving**. Or Select the **Keep Current Date and Time** or **Synchronize with Network Time Protocol server**.

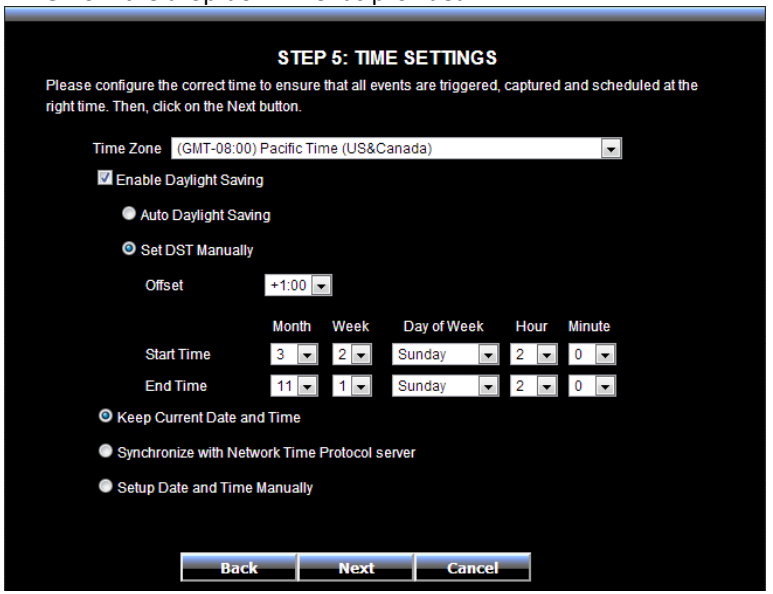

STEP 5: TIME SETTINGS
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the right time. Then, click on the Next button.
Time Zone
(GMT-08:00) Pacific Time (US&Canada)
Enable Daylight Saving
Keep Current Date and Time
Synchronize with Network Time Protocol server
Setup Date and Time Manually
Back
Next
Cancel

After enabling the daylight savings feature, the following will appear. Select **Auto Daylight Saving** allowing the camera to automatically detect the daylight saving time.


STEP 5: TIME SETTINGS
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the right time. Then, click on the Next button.
Time Zone
(GMT-08:00) Pacific Time (US&Canada)
Enable Daylight Saving
Auto Daylight Saving
Set DST Manually
Keep Current Date and Time
Synchronize with Network Time Protocol server
Setup Date and Time Manually
Back
Next
Cancel

To manually setup Daylight saving, select **Set DST manually** option.

Select the **Offset** of the time within 1 to 2 hours. Then select a **Start Time** and an **End Time** from the drop-down menus provided.



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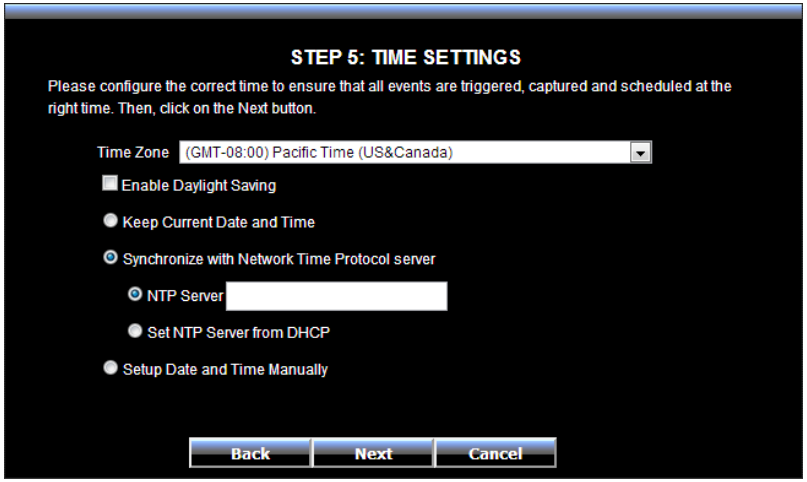
After selecting the **Synchronize with Network Time Protocol server** option, the following will appear.

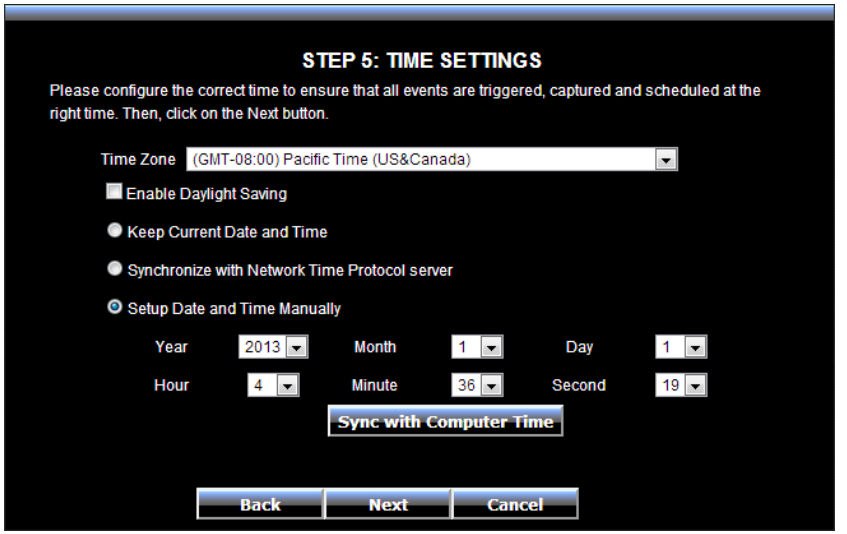
Select and enter the **NTP Server** address used here or alternatively select the **Set NTP Server from DHCP** option to allow the camera to obtain the date and time settings from the NTP Server that is configured to run in collaboration with the DHCP server on your local network.

Select the **Setup Date and Time Manually** option to manual configure the date and time settings for this camera.


STEP 5: TIME SETTINGS
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the right time. Then, click on the Next button.
Time Zone
(GMT-08:00) Pacific Time (US&Canada)
Enable Daylight Saving
Keep Current Date and Time
Synchronize with Network Time Protocol server
NTP Server
Set NTP Server from DHCP
Setup Date and Time Manually
Back
Next
Cancel

After selecting the **Setup Date and Time Manually** option, the following will appear.

Select the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second** options from the drop-down menus provided to manually configure the date and time settings used by the camera. Alternatively, click the **Sync with Computer Time** button to automatically configure the camera's date and time settings to be the same as the current date and time settings on the local computer. Click **Next** to continue.


STEP 5: TIME SETTINGS
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the right time. Then, click on the Next button.
Time Zone
(GMT-08:00) Pacific Time (US&Canada)
Enable Daylight Saving
Keep Current Date and Time
Synchronize with Network Time Protocol server
Setup Date and Time Manually
Year 2013
Month 1
Day 1
Hour 4
Minute 36
Second 19
Sync with Computer Time
Back
Next
Cancel

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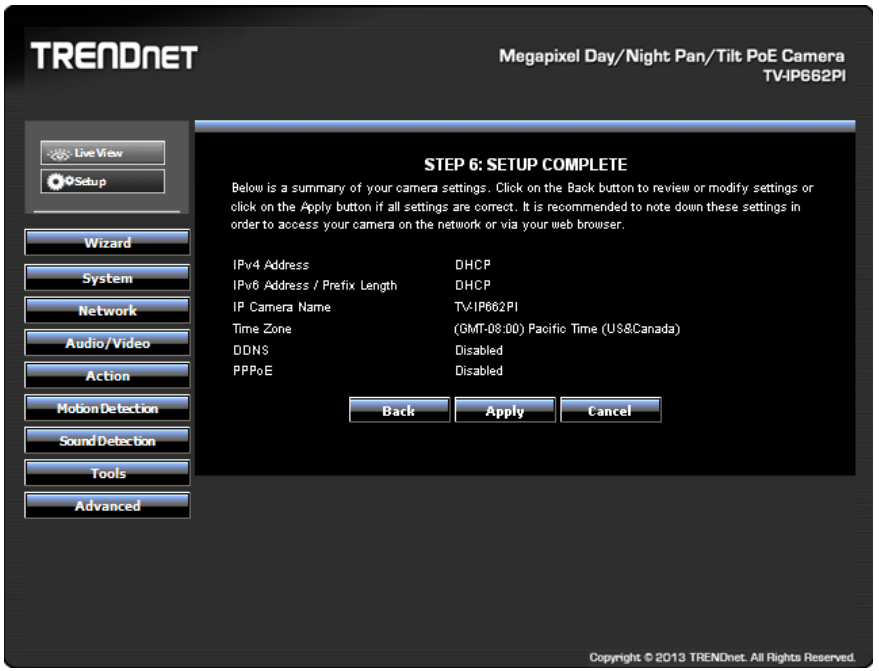
Step 6: Setup Complete

This is the final screen of the wizard. It shows the configuration options selected. Click **Apply** to make the changes. After clicking the **Apply** button, a notice will appear to mention that the camera will restart in 60 seconds and that it is saving the settings to the camera. After the restart, the Web UI will direct back to the start of the wizard.


TRENDnet
Megapixel Day/Night Pan/Tilt PoE Camera
TV-IP662PI
Live View
Setup
Wizard
System
Network
Audio/Video
Action
Motion Detection
Sound Detection
Tools
Advanced
STEP 6: SETUP COMPLETE
Below is a summary of your camera settings. Click on the Back button to review or modify settings or click on the Apply button if all settings are correct. It is recommended to note down these settings in order to access your camera on the network or via your web browser.
IPv4 Address DHCP
IPv6 Address / Prefix Length DHCP
IP Camera Name TV-IP662PI
Time Zone (GMT-08:00) Pacific Time (US&Canada)
DDNS Disabled
PPPoE Disabled
Back
Apply
Cancel
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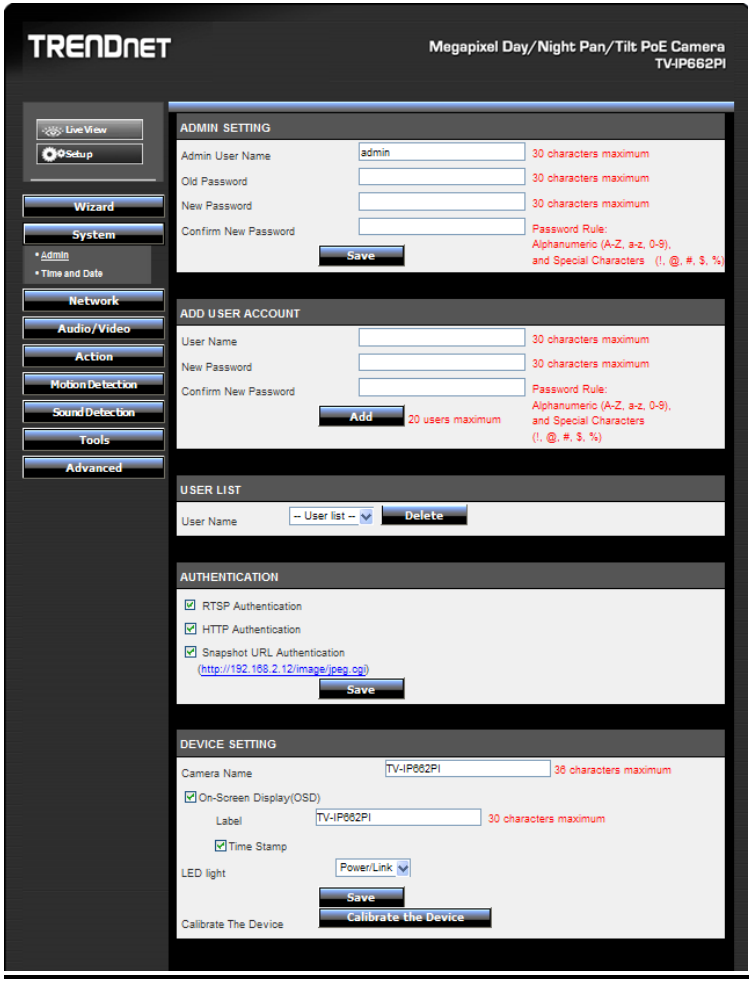
System

The next category option available is **System**. In the **System** category we can configure administrative settings and the date and time settings.



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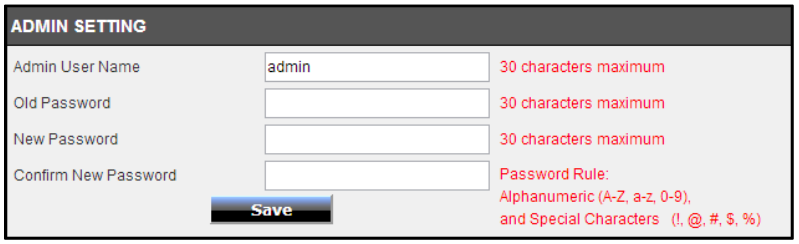
Admin

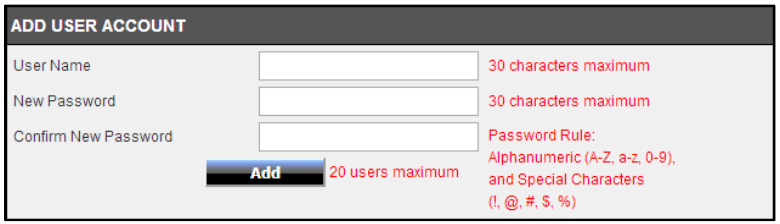
In the **Admin Settings** section, we can configure the following.



In this section we can configure the **administrator** account's login credentials that will be used to login to the camera's Web UI. In the **Admin User Name** field, enter the login username that will be used for this camera. In the **Old Password** field enter the old/current login password of the camera. In the **New Password** and **Confirm New Password** fields, enter the new login password that will be used for this camera. Click the **Save** button to save the modifications made.

Note: The password can only contain: Alphanumeric: A-Z, a-z, 0-9, and Special Characters: !, @, #, $, % and must between 8 to 30 characters.

In the **Add User Account** section, we can configure the following.



In this section we can configure the **user** account's login credentials that will be used to login to the camera's Web UI. In the **User Name** field, enter the login username that will be used for this camera. In the **New Password** and **Confirm New Password** fields, enter the new login password that will be used for this camera. Click the **Add** button to add the new user account created.

In the **User List** section, we can configure the following.

The **User Name** list will be populated with the names of the user accounts created in the previous section. To delete a user, select the user from the drop-down list and click the **Delete** button.

In the **Authentication** section, we can configure the following.

Tick the **RSTP Authentication** option to enable RSTP real-time authentication. Tick the **HTTP Authentication** option to enable HTTP authentication. Tick the **Snapshot URL Authentication** option to enable snapshot authentication of the current video stream using the hyperlink. Click the **Save** button to save the modifications made.

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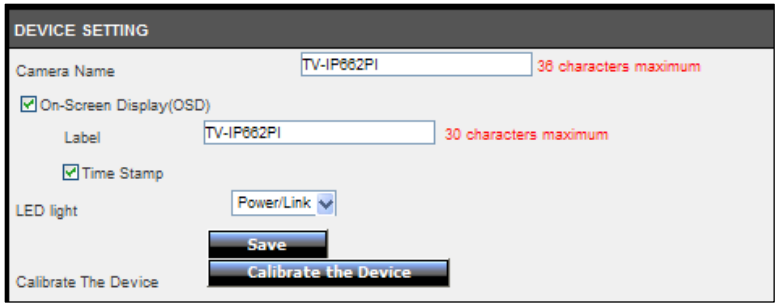
In the **Device Settings** section, we can configure the following.

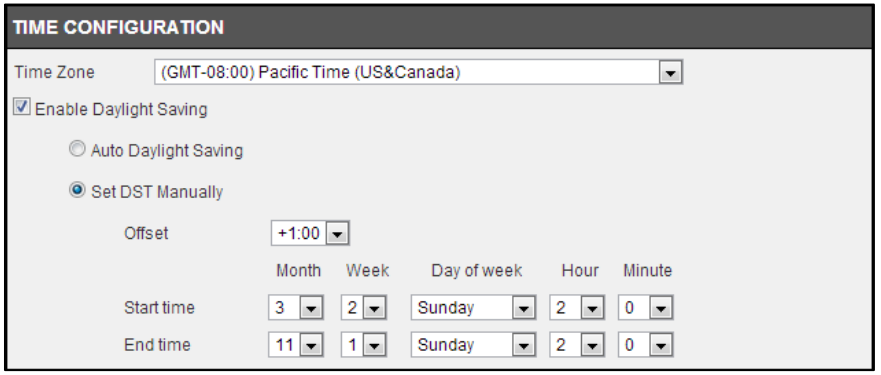


Enter the **Camera Name** in the space provided. Tick the **On-Screen Display (OSD)** option to display the label, date and time on the video feed. Enter the **Label** name in the space provided. Tick the **Time Stamp** option to display the date and time on the video feed. Select the **LED light** option from the drop-down list. When selecting the **Power/Link** option, the LED will light up when the camera has power and a network link. When selecting the **Off** option, the LED will be turned off. When selecting the **Blinking** option, the LED will rhythmically blink.

To calibrate the pan and tilt region of the camera, click the **Calibrate the Device** button.

Time and Date

In the **Time Configuration** section, we can configure the following.



Select the **Time Zone** option from the drop-down menu. Tick the **Enable Daylight Saving** option to enable the daylight saving feature on this camera. Select the **Auto Daylight Saving** option to automatically receive the daylight saving update from the time server. Select the **Set DST Manually** option to manually configure the daylight saving time options. After selecting to manually configure the daylight saving time, select the **Offset** value used. Select the **Start time** and **End time** options.

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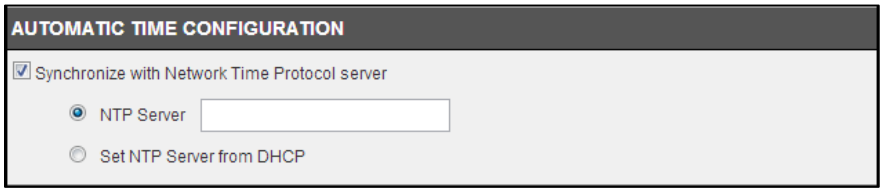
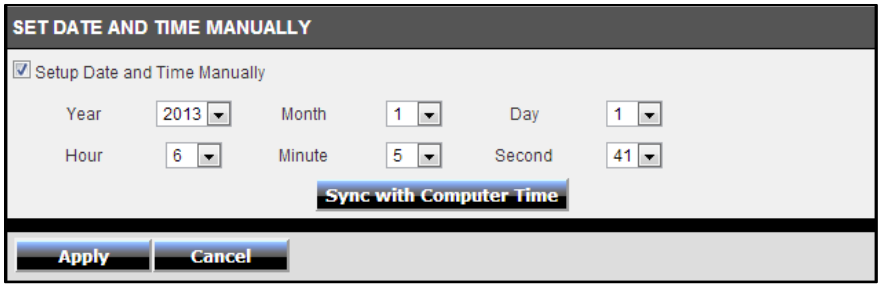
In the **Automatic Time Configuration** section, we can configure the following.



Tick the **Synchronize with Network Time Protocol server** option to enable the automatic time configuration option. Enter the **NTP Server** address of the time server used here or select the **Set NTP Server from DHCP** option to allow the camera to obtain the date and time settings from the NTP Server that is configured to run in collaboration with the DHCP server on your local network.

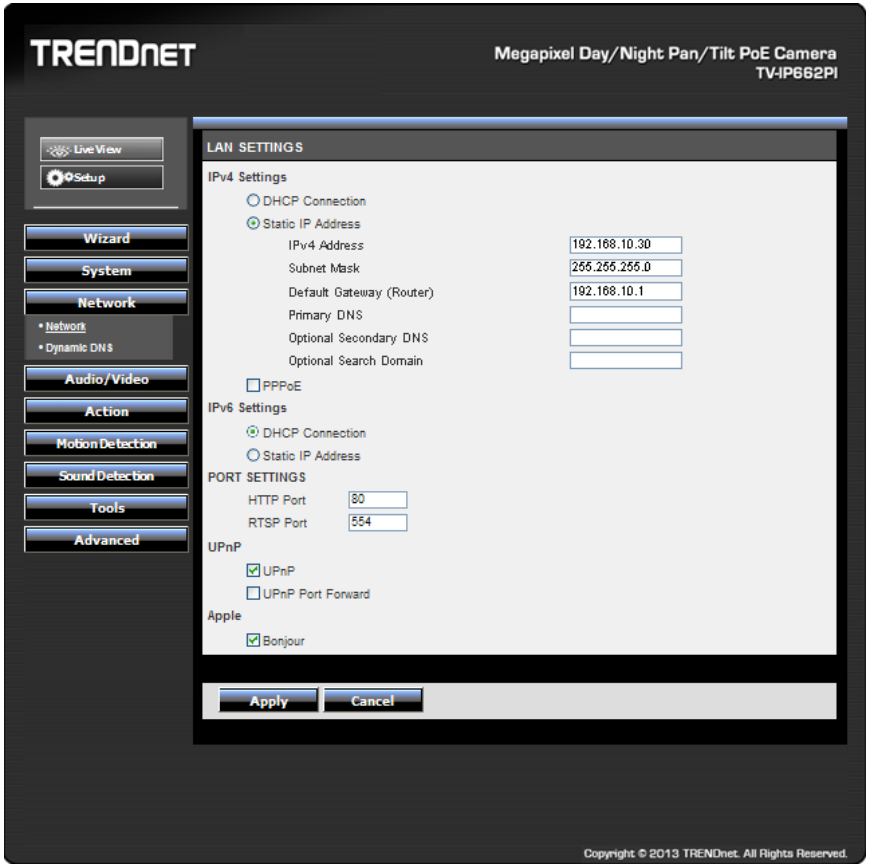
In the **Set Date and Time Manually** section, we can configure the following.


SET DATE AND TIME MANUALLY
Setup Date and Time Manually
Year 2013 Month 1 Day 1
Hour 6 Minute 5 Second 41
Sync with Computer Time
Apply Cancel

Tick the **Setup Date and Time Manually** option to manually configure the date and time settings for this camera. Select the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second** options from the drop-down menus provided to manually configure the date and time settings used by the camera. Alternatively, click the **Sync with Computer Time** button to automatically configure the camera's date and time settings to be the same as the current date and time settings on the local computer. Click the **Apply** button to apply the modifications made.

Network

The next category option available is **Network**. In the **Network** category we can configure the wired network settings. Also available for configuration in this category is Dynamic DNS.



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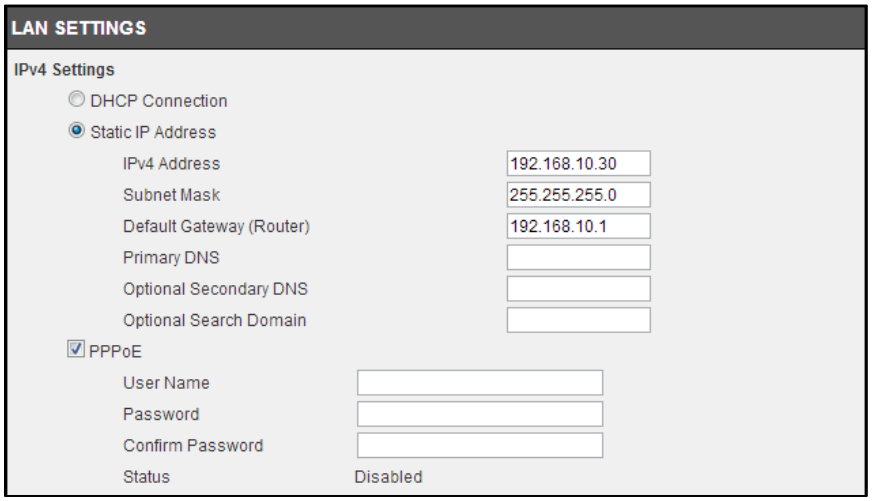
Network

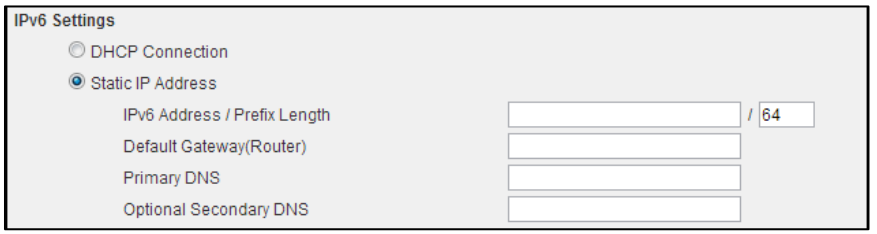
In the **LAN Settings** section, we can configure the following.



In the **IPv4 Settings** part, we can configure the IPv4 network settings used by this camera. Select the **DHCP Connection** option to automatically obtain the IPv4 network settings, for this camera, from a DHCP server, located on the local network.

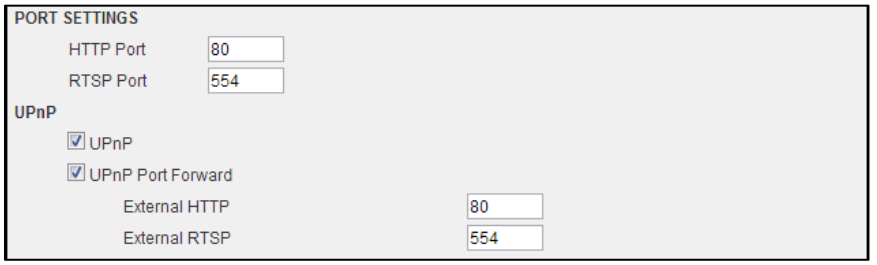
Select the **Static IP Address** option to manually configure the IPv4 network settings used by this camera. Enter the **IPv4 Address**, **Subnet Mask**, **Default Gateway**, **Primary DNS**, **Optional Secondary DNS**, and **Optional Search Domain** parameters in the spaces provided.

This camera can connect to the Internet directly through the means of a PPPoE connection. Tick the **PPPoE** option to enable this feature. Enter the PPPoE Internet connection's **User Name** and **Password** in the spaces provided. This information can be acquired from your ISP.



In the **IPv6 Settings** part, we can configure the IPv6 network settings used by this camera. Select the **DHCP Connection** option to automatically obtain the IPv6 network settings, for this camera, from a DHCP server, located on the local network.

Select the **Static IP Address** option to manually configure the IPv6 network settings used by this camera. Enter the **IPv6 Address/Prefix Length**, **Default Gateway (Router)**, **Primary DNS**, and **Optional Secondary DNS** parameters in the spaces provided.



In the **Port Settings** part, enter the **HTTP Port** and **RSTP Port** numbers used.

In the **UPnP** part, tick the **UPnP** option to enable the UPnP feature on this camera. Tick the **UPnP Port Forward** option to enable the UPnP port forwarding feature. Enter the **External HTTP** and **External RSTP** port number in the respective spaces provided.

In the **Apple** part, we can enable the **Bonjour** feature. Click the **Apply** button to apply the modifications made.

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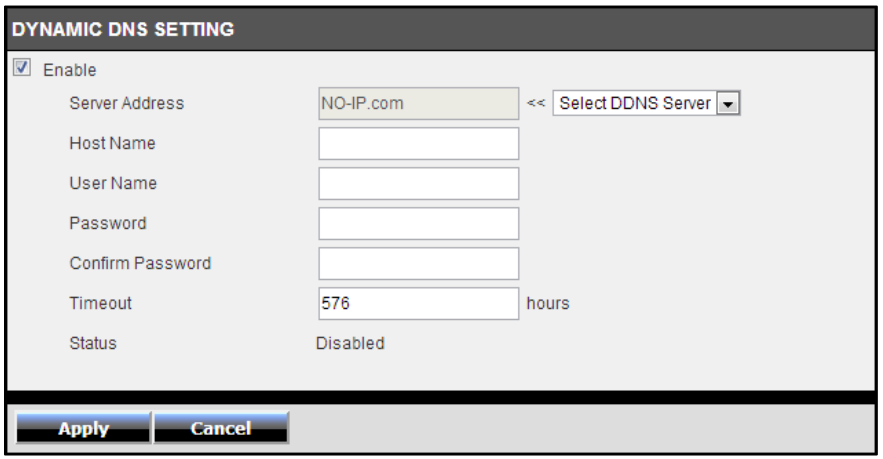
Dynamic DNS

Dynamic DNS is a method of keeping a domain name linked to a changing public IP address as not all public IP addresses are static. Typically, when a user connects to the Internet, the user's ISP assigns an unused IP address from a pool of IP addresses and this address is used only for the duration of that specific connection. This method of dynamically assigning addresses extends the usable pool of available IP addresses. A dynamic DNS service provider uses a special program that runs on the user's computer, contacting the DNS service each time the IP address provided by the ISP changes and subsequently updating the DNS database to reflect the change in IP address.

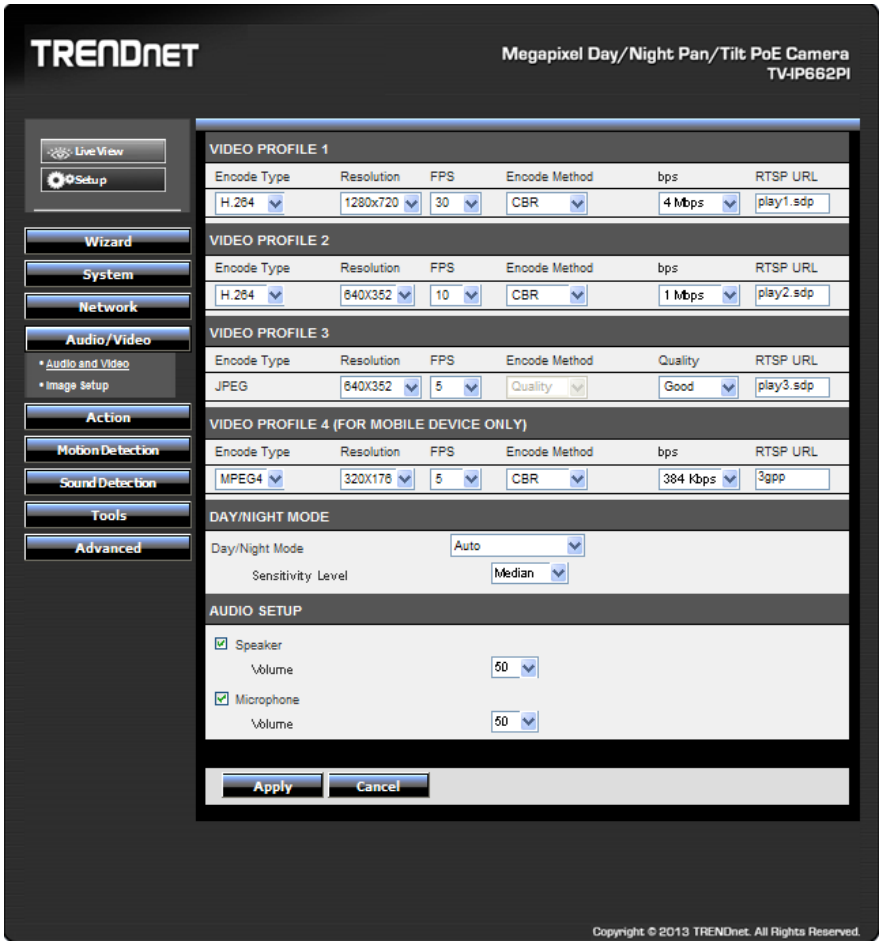
In the **Dynamic DNS Settings** section, we can configure the following.



Tick the **Enable** option to enable the Dynamic DNS feature. Select the DDNS service provider from the drop-down list after which the service provider's name will be moved to the **Server Address** field. Enter the **Host Name**, **User Name**, **Password**, and **Timeout** information in the spaces provided. Click the **Apply** button to apply the modifications made.

Audio /Video

The next category option available is **Audio/Video**. In the **Audio/Video** category we can configure audio and video profiles and settings as well as configure image settings.



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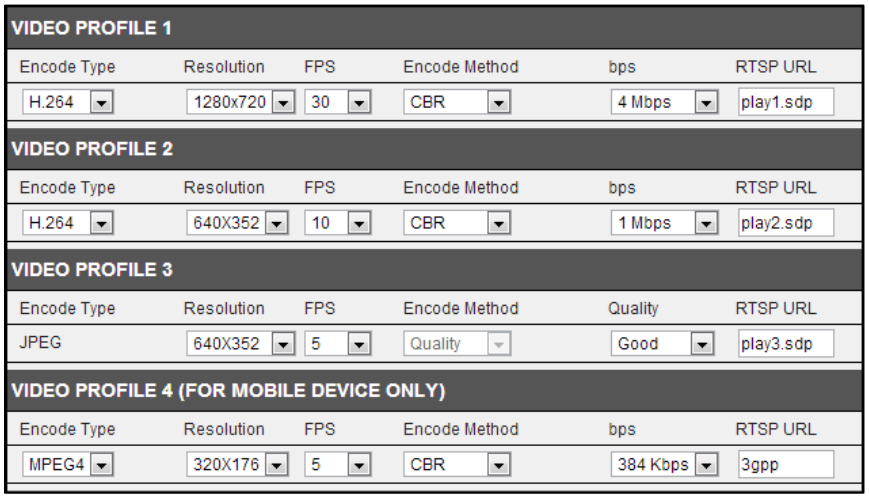
Audio and Video

In the **Video Profile** sections, we can configure the following.


VIDEO PROFILE 1
Encode Type Resolution FPS Encode Method bps RTSP URL
H.264 1280x720 30 CBR 4 Mbps play1.sdp
VIDEO PROFILE 2
Encode Type Resolution FPS Encode Method bps RTSP URL
H.264 640X352 10 CBR 1 Mbps play2.sdp
VIDEO PROFILE 3
Encode Type Resolution FPS Encode Method Quality RTSP URL
JPEG 640X352 5 Quality Good play3.sdp
VIDEO PROFILE 4 (FOR MOBILE DEVICE ONLY)
Encode Type Resolution FPS Encode Method bps RTSP URL
MPEG4 320X176 5 CBR 384 Kbps 3gpp

Select the **Encode Type** option from the drop-down list. Encoding types that can be selected are **MPEG4**, **H.264**, and profile 3 will be on **JPEG** permanently.

Select the **Resolution** size option from the drop-down list. Resolutions that can be selected are **1280x720**, **640x352**, **320x176**, and **160x80**. The resolution of 1280x720 is only available on profiles 1 and 3.

Select the Frames Per Second (**FPS**) from the drop-down list. FPS speeds that can be selected are **30**, **15**, **10**, **6**, **5**, **3**, **2**, and **1**.

Encode Method – Two options available: CBR/Quality. CBR and Quality can be defined as such. When users choose the CBR encode method, the camera selects the bitrate as the first priority. The TV-IP662PI will adjust the image quality to fit the bitrate. When the user chooses the Quality encode method, the camera select the bitrate to fit the quality.

Select the **Encode Mode** option from the drop-down list. Encoding modes that can be selected are Constant Bit Rate (**CBR**) and **Quality** and profile 3 will use the quality mode permanently.

After selecting **CBR** as the **Encode Mode**, select the Bits Per Second (**bps**) value. Options to choose from are between 64 Kbps and 4 Mbps. After selecting **Quality** as the **Encode Mode**, select the **Quality** option. Options to choose from are **Low**, **Fair**, **Standard**, **Good**, and **Excellent**.

Users can also enter a custom **RSTP URL** in the space provided.

In the **Day/Night Mode** section, we can configure the following.

The camera allows users to record data in day and night mode. The camera has IR LED's for night mode. When selecting the Day mode, the viewing image is in normal color. However, when you use Night mode, the viewing image turns black and white. The reason for this is to create a clearer and smoother image. When you select the **Auto** mode, the Day/Night function is concealed.

Please Note: This allows you to set the camera to switch automatically from day to night mode (default) or to permanently set the color and Black/White operations. Also note, even when the camera is set to color mode, it will switch to Black/White night vision if there is no longer enough ambient light to support the color saturation.

Select the **Day/Night Mode** option from the drop-down list. Options to choose from are **Auto**, **Manual**, **Always day mode**, **Always night mode**, and **Schedule**. When selecting **Auto**, the camera will automatically switch between day and night modes depending on the light conditions. When selecting **Manual**, the user can manually toggle between day and night modes by clicking the button on the **Live View** page. When selecting **Always day mode** or **Always night mode** the camera will stay on the mode selected even when the light conditions change. When selecting the **Schedule** option, the camera will toggle between day and night modes depending on the time schedule configured.

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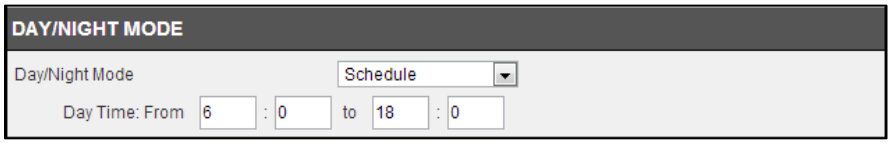
After selecting the **Auto** option as the **Day/Night Mode**, we can configure the following.

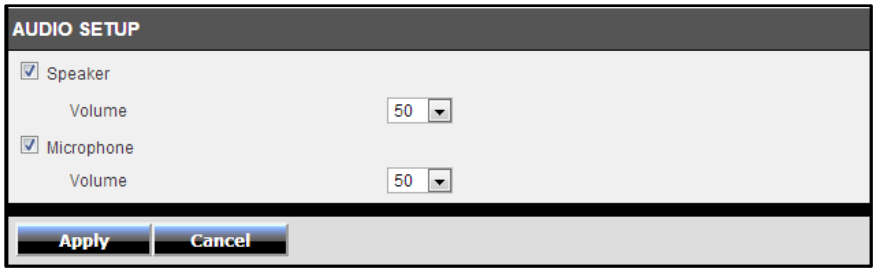
Select the **Sensitivity Level** option from the drop-down list. There are three main sensitivity point called **Brightest**, **Median**, and **Darkest**. In between these main sensitivity points are numerical sensitivity values ranging from **+1** to **+7** between **Median** and **Brightest**, and numerical sensitivity values ranging from **-1** to **-5** between **Median** and **Darkest**. Selecting the sensitivity level closer to the **Brightest** option, will switch the IR LEDs on **earlier** when the area becomes darker. Selecting the sensitivity level closer to the **Darkest** option, will switch the IR LEDs on **later** when the area becomes darker.

After selecting the **Schedule** option as the **Day/Night Mode**, we can configure the following.



Enter the **Day Time** values in the spaces provided. First enter the starting hour and minute values next to the **From** option and then enter the ending hour and minute values next to the **to** option.

In the **Audio Setup** section, we can configure the following.



Tick the **Speaker** option to enable the audio feed from the camera to the PC. Tick the **Microphone** option to enable the audio feed from the PC to the camera. Select the **Volume** level for both selections. Click the **Apply** button to apply the modifications made.

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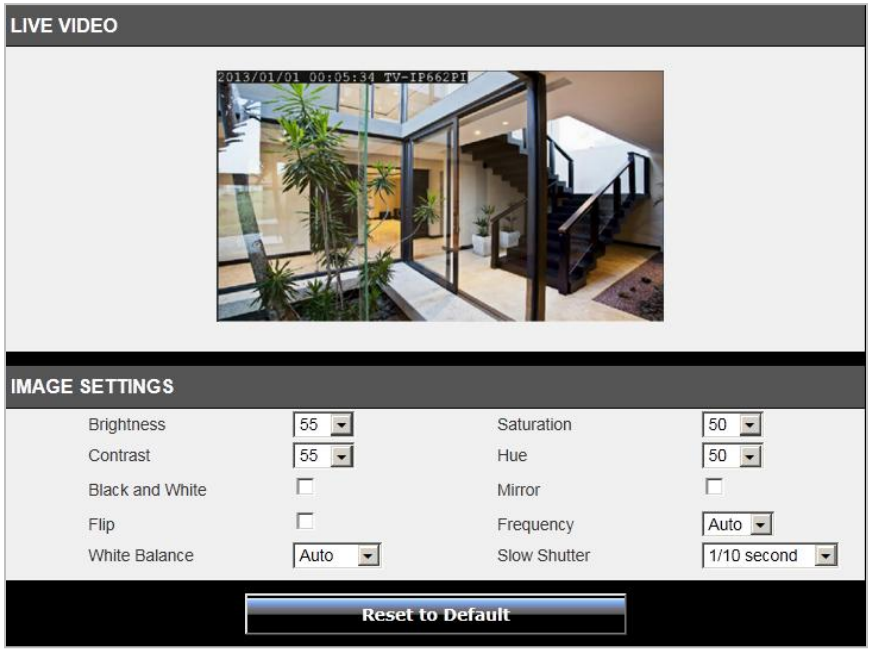
Image Setup

In the **Live Video** section, we can view the live video feed while we do image modifications in the **Image Settings** section.

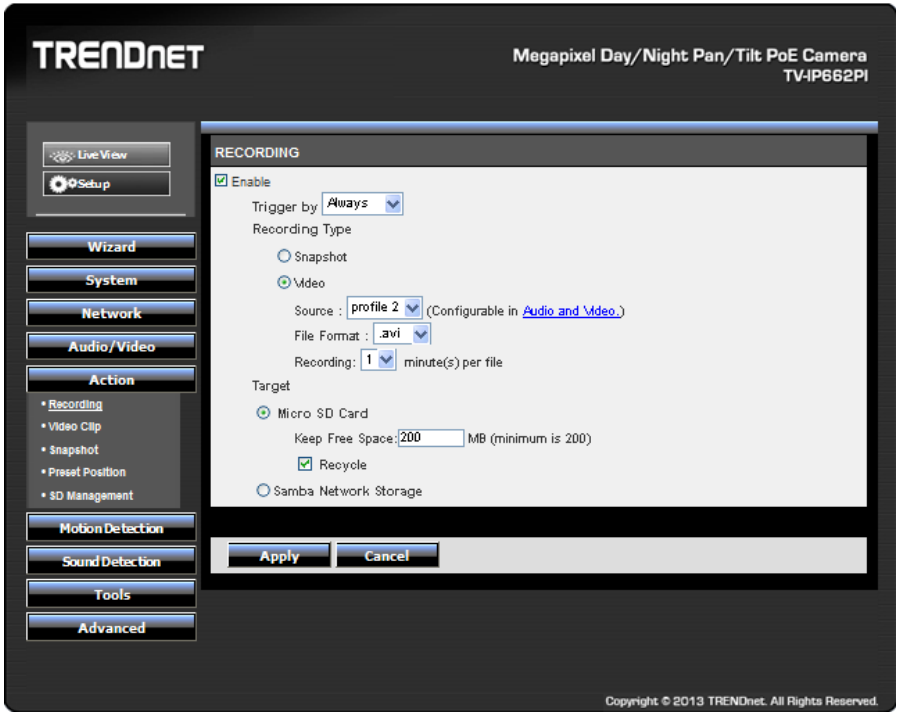


Select the **Brightness**, **Saturation**, **Contrast**, and **Hue** values from the respective drop-down menus. Tick the **Black and White** option to change the image color to black and white. Tick the **Mirror** option to flip the video image horizontally. Tick the **Flip** option to flip the video image vertically for upside-down mounting. Select the video **Frequency** value from the drop-down list.

Select to enable or disable the auto **White Balance** feature. To enable the **Slow Shutter** feature, select one of the time values (**1/15 second**, **1/10 second**, **1/7.5 second** or **1/3.75 second**) from the drop-down list. Click the **Reset to Default** button to return the image settings to their default values.

Action

The next category option available is **Action**. In the **Action** category we can configure the action that will be taken when recording is done.



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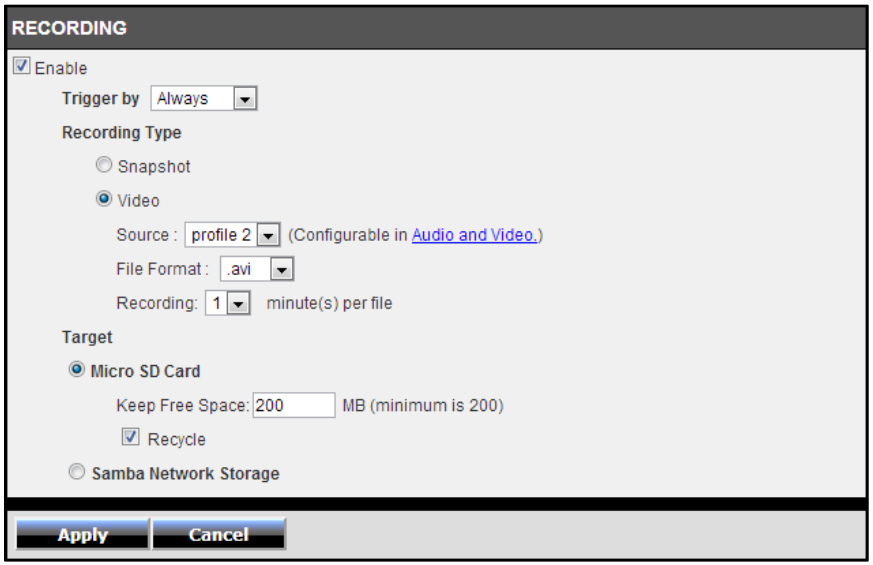
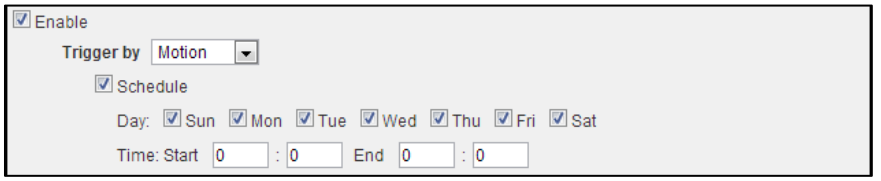
Recording

This camera allows users to record video, based on a trigger event, and then save the video recording either on a micro SD card or on a Samba server shared folder. In the **Recording** section, we can configure the following.



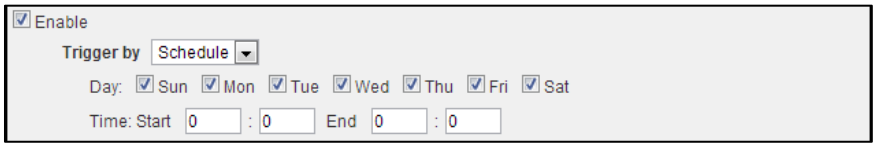
Tick the **Enable** option to enable the recording feature. Select the **Trigger by** option from the drop-down list. Options to choose from are **Motion**, **Schedule**, **Always**, and **Sound**. The parameters available for configuration will change depending on the selections made.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.



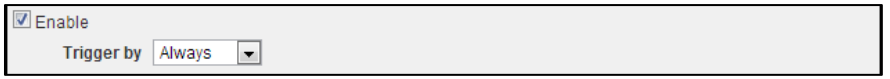
Selecting **Motion**, will tell the camera only to record when motion is detected. Tick the **Schedule** option to only record motion at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Schedule** option as the **Trigger by** event, the following can be configured.



Selecting **Schedule**, will tell the camera to record always within the scope of the schedule configured. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Always** option as the **Trigger by** event, the following can be configured.



Selecting **Always**, will tell the camera to record always.

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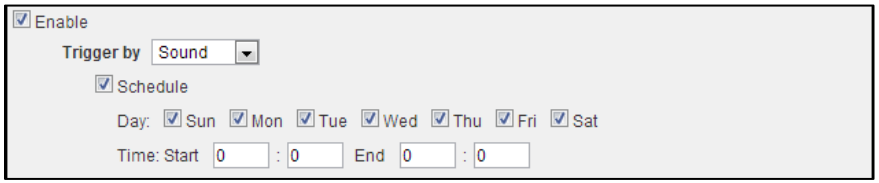
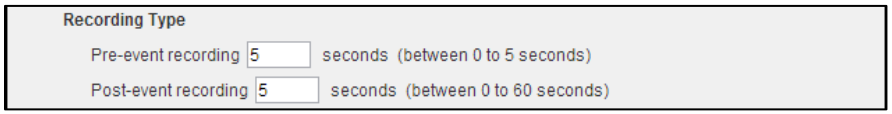
After selecting the **Sound** option as the **Trigger by** event, the following can be configured.



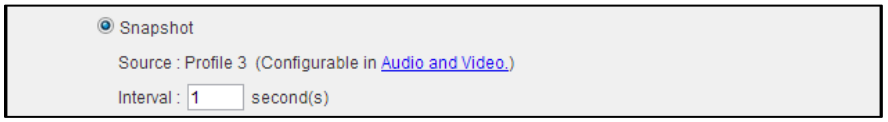
Selecting **Sound**, will tell the camera only to record when sound is detected. Tick the **Schedule** option to only record video when sound is detected at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

In the **Recording Type** section, we can configure the following.


Recording Type
Pre-event recording 5 seconds (between 0 to 5 seconds)
Post-event recording 5 seconds (between 0 to 60 seconds)

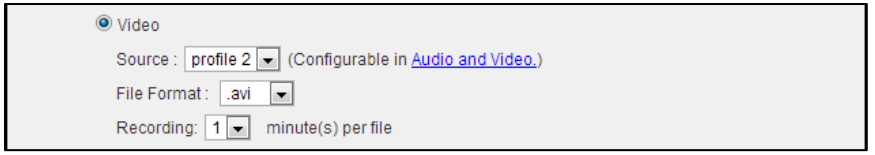
Enter the **Pre-event recording** and **Post-event recording** time values in the respective fields provided.

When selecting the **Snapshot** option, the following can be configured.



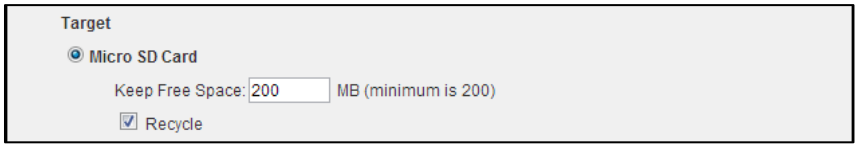
Selecting this option will tell the camera to only take a snapshot (an image capture) of the video feed when the abovementioned criteria are met. Enter the **Interval** value in the space provided. The interval value means that a snapshot will be taken at every interval configured. Only **Profile 3** can be used for this selection.

When selecting the **Video** option, the following can be configured.



Selecting this option will tell the camera to record a video clip when the abovementioned criteria are met. Select the video profile (**Source**) that will be used for the recording. Select the **File Format** that the recording will be saved as. File formats available are AVI and MP4. Select the **Recording** clip time value between 1 and 6 minutes. This will split the total recording into smaller separate files for the duration of the recording.

In the **Target** section, we can configure the following.



After selecting **Micro SD Card** as the recording **Target**, the recording will be saved on the micro SD card installed in the camera. Enter the **Keep Free Space** value that is needed on the micro SD card. Tick the **Recycle** option to record until the space is filled on the micro SD card and then to record over the oldest recordings found on the card.

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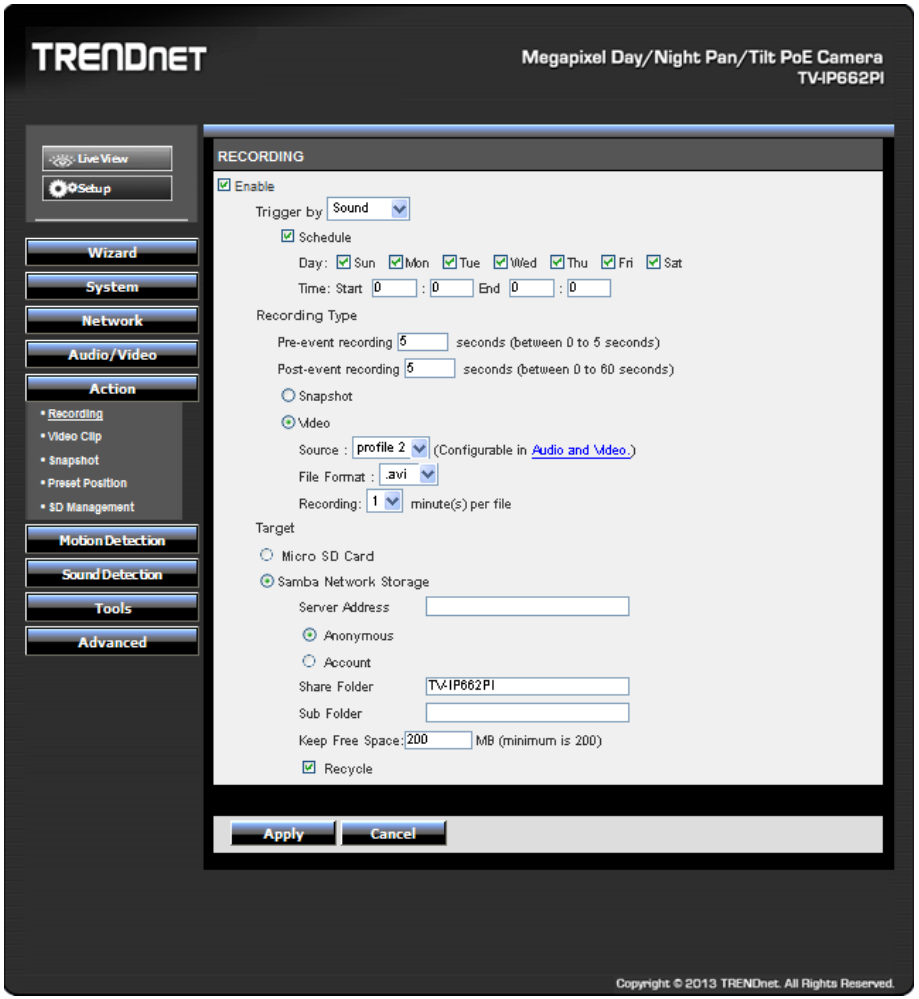
After selecting **Samba Network Storage** as the recording **Target**, the recording will be saved on the Samba network attached storage available on the local network.



After selecting **Samba Network Storage** as the recording **Target**, the recording will be saved on the Samba network storage available on the network. Enter the **Samba Server Address** in the space provided. To connect to the Samba server as anonymous, select the **Anonymous** option. To connect the Samba server with a user account, select the **Account** option and enter the **Username** and **Password** in the spaces provided.

Enter the **Share Folder** name, **Sub Folder** name, and **Keep Free Space** information in the spaces provided. Tick the **Recycle** option to record until the space is filled on the Samba server account and then to record over the oldest recordings.

Click the **Apply** button to apply the modifications made.

Recording features:

Function		Recording	Video Clip	Snapshot	Note
Trigger Type	**Always**	Y	Y	Y	
	Motion	Y	Y	Y	
	Motion with Schedule	Y	Y	Y	
	Schedule	Y	Y	Y	
	Sound	Y	Y	Y	
	Sound with Schedule	Y	Y	Y	
Video profile Options		Profile 1/2/4 supported	Profile 1/2/4 supported	Profile 3 supported	* For recording and video clip, the available video profile options are 1/2/4. * For snapshot, the default video

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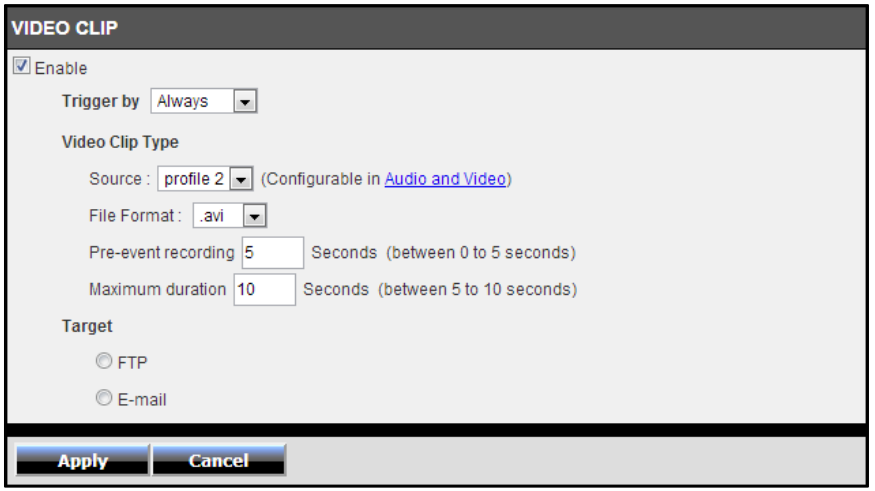
					profile option is profile 3.
Target	**E-Mail**	N	Y	Y	
	FTP	N	Y	Y	
	Micro SD card	Y	N	N	
	Samba	Y	N	N	
Recording Type	**Pre-Event**	Y	Y	Y	* It's only supported when trigger by Motion/Sound is activated. * Snapshot, it's activated using 6 snapshots only.
	Post - Event	Y	N	Y	* It's only supported when trigger by Motion/Sound is activated. * Snapshot, it's activated using 6 snapshots only.
	Real Time	Y	Y	Y	

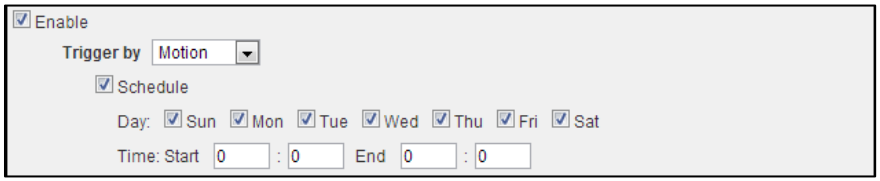
Video Clip

This camera allows users to record video clips and then send it to an FTP server or email the video to an email account. In the **Video Clip** section, we can configure the following.



Tick the **Enable** option to enable the video clip feature. Select the **Trigger by** option from the drop-down list. Options to choose from are **Motion**, **Schedule**, **Always**, and **Sound**. The parameters available for configuration will change depending on the selections made.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.



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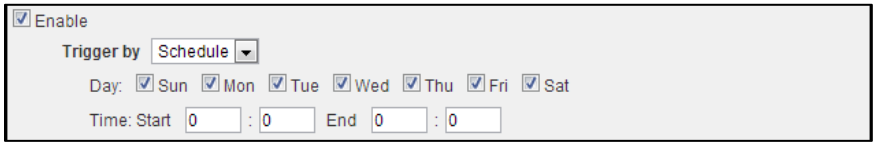
Selecting **Motion**, will tell the camera only to record when motion is detected. Tick the **Schedule** option to only record motion at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Schedule** option as the **Trigger by** event, the following can be configured.

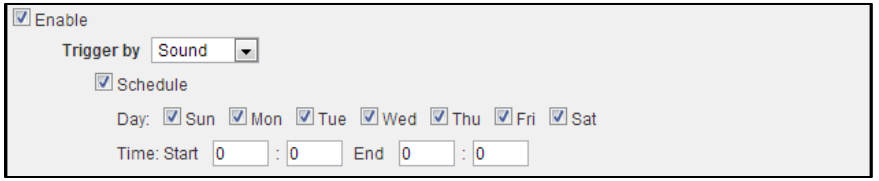


Selecting **Schedule**, will tell the camera to record always within the scope of the schedule configured. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Always** option as the **Trigger by** event, the following can be configured.

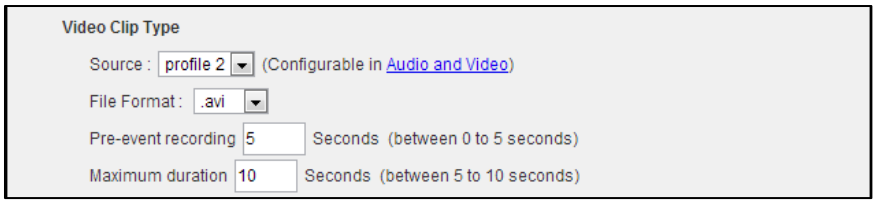
Selecting **Always**, will tell the camera to record always.

After selecting the **Sound** option as the **Trigger by** event, the following can be configured.



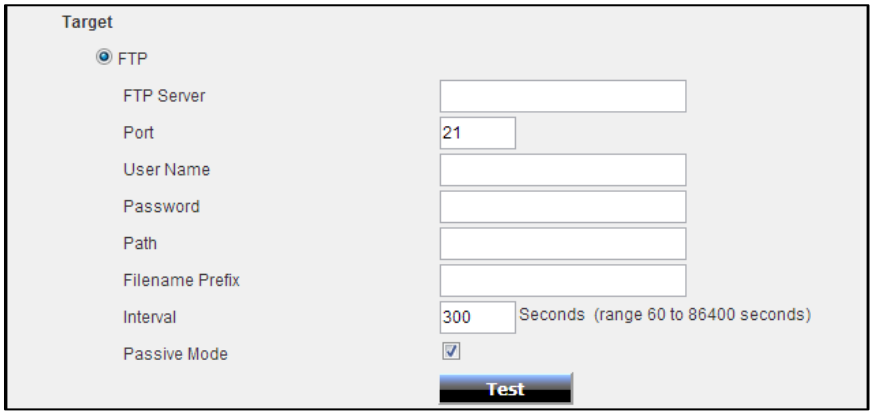
Selecting **Sound**, will tell the camera only to record when sound is detected. Tick the **Schedule** option to only record video when sound is detected at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

In the **Video Clip Type** section, we can configure the following.


Video Clip Type
Source : profile 2 (Configurable in Audio and Video)
File Format : .avi
Pre-event recording 5 Seconds (between 0 to 5 seconds)
Maximum duration 10 Seconds (between 5 to 10 seconds)

Select the video profile in the **Source** drop-down list to use. Since profile 3 is only for JPEG, it cannot be used here. Select the **File Format** that the video clip will be saved as. Options to choose from are AVI and MP4. Enter the **Pre-event recording** time value and the **Maximum duration** time value in the spaces provided.

In the **Target** section, we can configure the following.



In this section we can configure where the recorded video clip will be saved. Select **FTP** or **E-mail** as the target. After selecting **FTP** as the **Target**, enter the **FTP Server** address, **Port** number, **User Name**, **Password**, **Path**, **Filename Prefix**, and **Interval** information in the spaces provided. Tick the **Passive Mode** option to enable the passive mode feature. Click the **Test** button to test the FTP connection.

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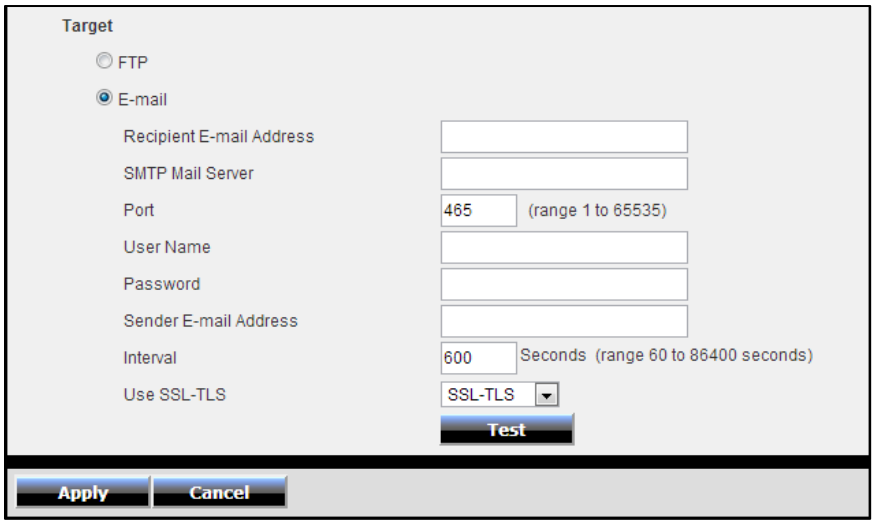
After selecting **E-mail** as the **Target**, the following will be available.

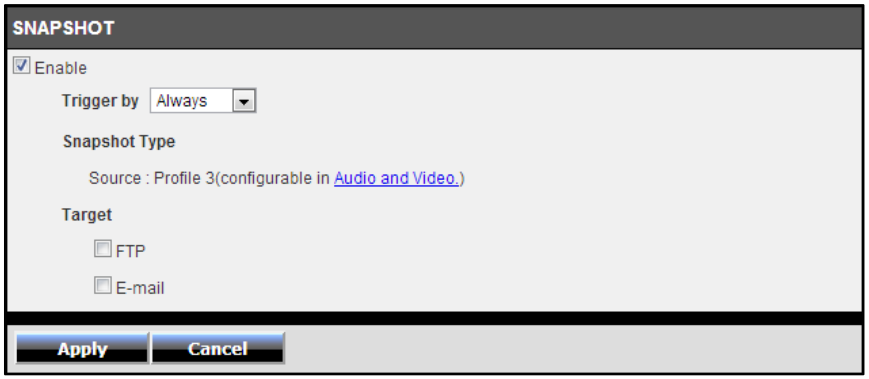


Enter the **Recipient E-mail Address**, **SMTP Mail Server** address, **Port** number, **User Name**, **Password**, **Sender E-mail Address**, and **Interval** information in the spaces provided. Select the **SSL-TLS** option that will be used. Options to choose from are **None**, **SSL-TLS**, and **STARTTLS**. Click the **Test** button to test the E-mail connection.

Click the **Apply** button to apply the modifications made.

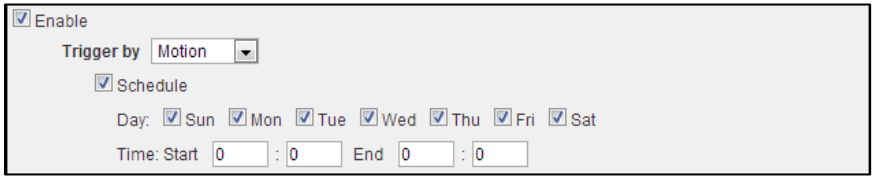
Snapshot

Snapshots can be taken by this camera based on the trigger by event. In the **Snapshot** section, we can configure the following.



Tick the **Enable** option to enable the snapshot feature. Select the **Trigger by** option from the drop-down list. Options to choose from are **Motion**, **Schedule**, **Always**, and **Sound**. The parameters available for configuration will change depending on the selections made.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.



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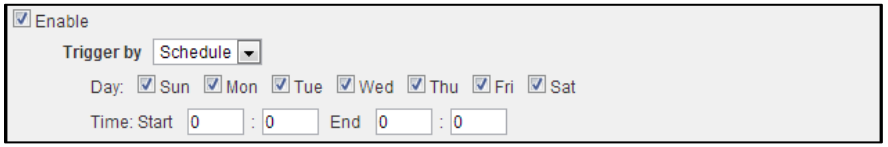
Selecting **Motion**, will tell the camera only to take snapshots when motion is detected. Tick the **Schedule** option to only take snapshots for motion at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Schedule** option as the **Trigger by** event, the following can be configured.

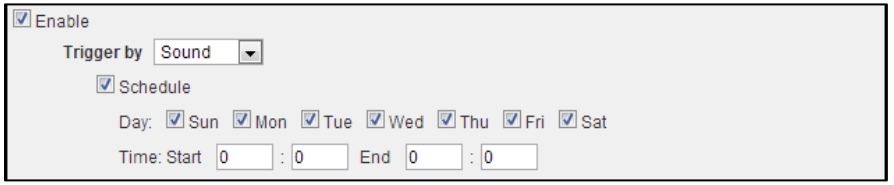


Selecting **Schedule**, will tell the camera to always take snapshots within the scope of the schedule configured. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Always** option as the **Trigger by** event, the following can be configured.

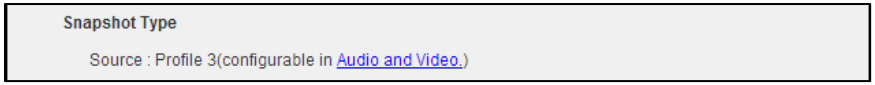
Selecting **Always**, will tell the camera to always take snapshots.

After selecting the **Sound** option as the **Trigger by** event, the following can be configured.



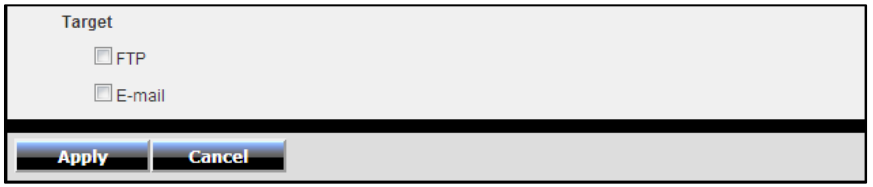
Selecting **Sound**, will tell the camera only to take snapshots when sound is detected. Tick the **Schedule** option to only take snapshots when sound is detected at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

In the **Snapshot Type** section, we can configure the following.



Only **Profile 3** can be used to take snapshots.

In the **Target** section, we can configure the following.



In this section we can configure where the snapshot will be saved. Select **FTP** or **E-mail** as the target.

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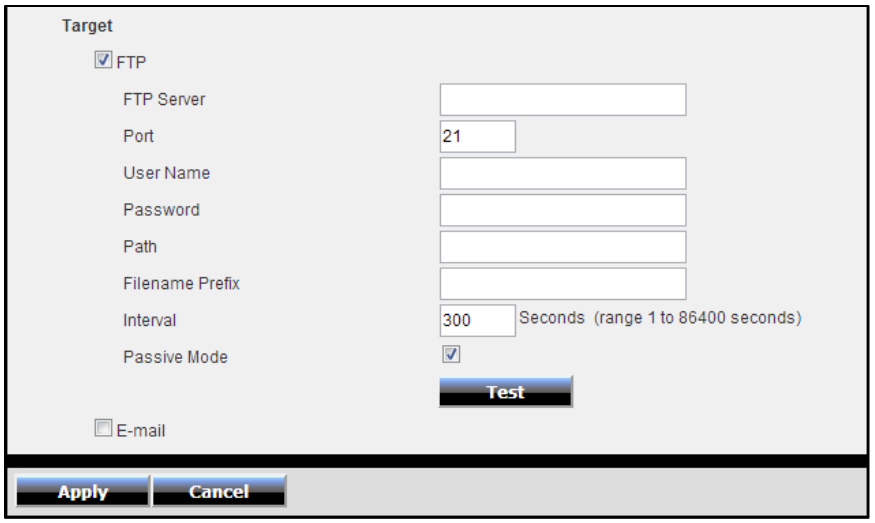
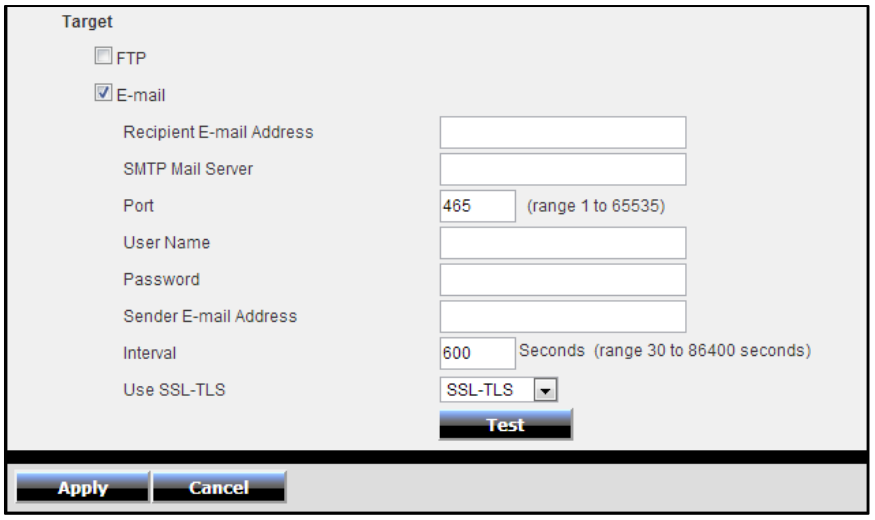
After selecting **FTP** as the **Target**, the following will be available.



Enter the **FTP Server** address, **Port** number, **User Name**, **Password**, **Path**, **Filename Prefix**, and **Interval** information in the spaces provided. Tick the **Passive Mode** option to enable the passive mode feature. Click the **Test** button to test the FTP connection.

After selecting **E-mail** as the **Target**, the following will be available.



Enter the **Recipient E-mail Address**, **SMTP Mail Server** address, **Port** number, **User Name**, **Password**, **Sender E-mail Address**, and **Interval** information in the spaces provided. Select the **SSL-TLS** option that will be used. Options to choose from are **None**, **SSL-TLS**, and **STARTTLS**. Click the **Test** button to test the E-mail connection.

Click the **Apply** button to apply the modifications made.

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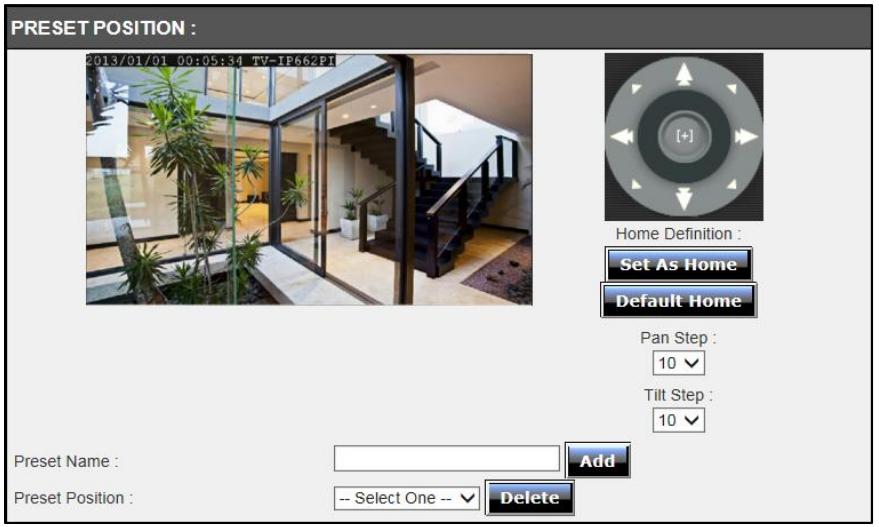
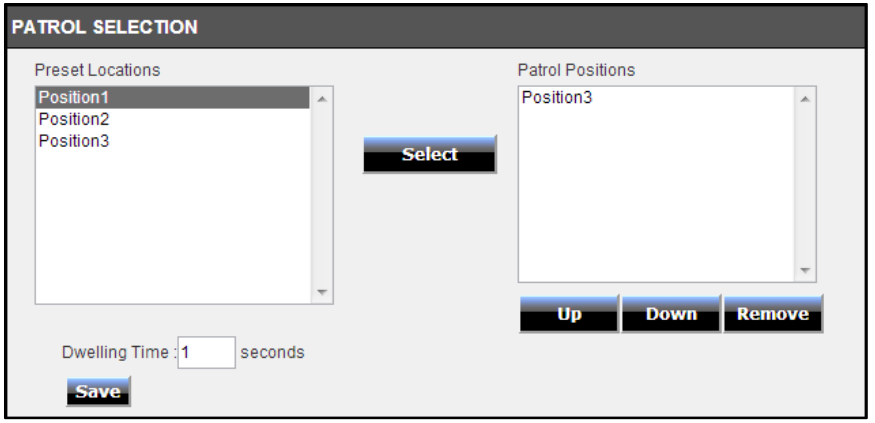
Preset Position

On this page we can configure the pan and tilt preset positions. In the **Preset Position** section, we can configure the following.



A live video feed is displayed in the top-left corner to assist users when moving the camera's video angle to a specific position. A control menu, on the top-right corner can be used to pan and tilt the camera's video angle to a specific position. Click the **Set As Home** button to save the current viewing angle as the home position. Click the **Default Home** button to restore the default home position as the home position. Select the **Pan Step** speed and **Tilt Step** speed from the drop-down menus provided. Enter the **Preset Name** in the space provided and click the **Add** button to save the current viewing angle as a saved preset position that can be used later. A list of configured preset positions will be displayed in the drop-down list. Select a configured **Preset Position** from the drop-down list and click the **Delete** button to remove a saved preset position.

In the **Patrol Selection** section, we can configure the following.



In the **Patrol Selection** section we can configure the patrol feature in which the camera will patrol through a list of predefined preset position in order from top to bottom. Select a preconfigured preset position in the **Preset Locations** menu and click on the **Select** button to move it over to the **Patrol Position** menu. To reorder the patrol positions, select it and click either on the **Up** or **Down** buttons. To remove a patrol position from the list, select the patrol position and click on the **Remove** button.

Enter the **Dwelling Time** value in the space provided. This indicates the time needed to span each preset while patrolling. Click the **Save** button to the save the patrol modifications done.

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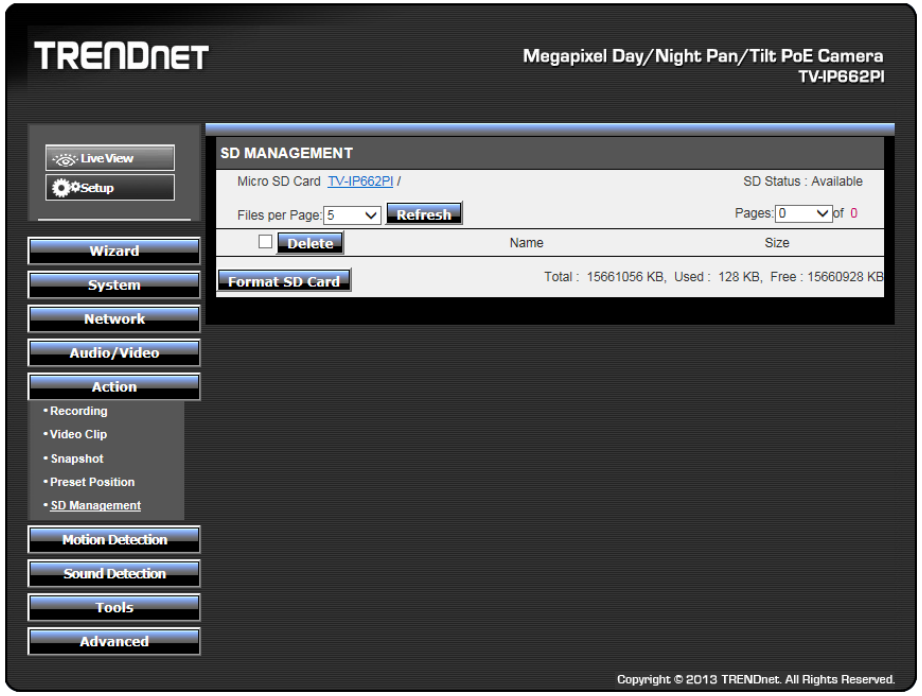
SD Management

On this page the micro SD card can be managed. In the **SD Management** section, we can configure the following.

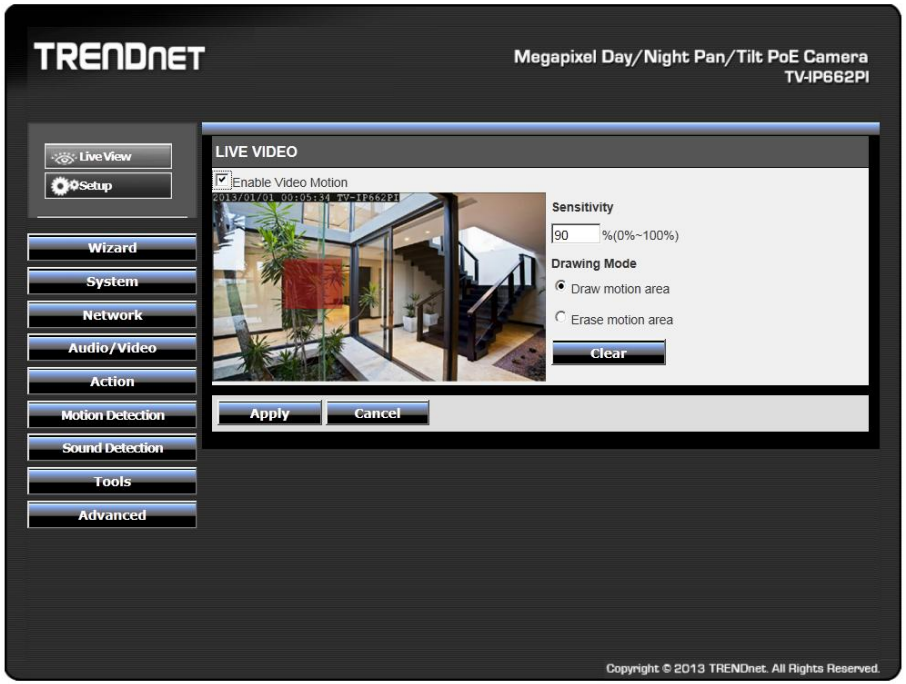


In this section the **SD Status**, Folder **Name**, Folder **Size**, **Total** Space, Total Space **Used**, and Total Space **Free** information will be displayed. Select the **Files per Page** option from the drop-down list to view a certain amount of files per page. Select the **Pages** option from the drop-down list to view a certain page's information, when multiple pages exist. Select a folder's or file's **checkbox** and click the **Delete** button to manually remove a folder or file from the micro SD card. Click the **Format SD Card** button to completely reformat the micro SD card.

Note: When formatting the SD card, all files and folders will be removed from the micro SD card and cannot be recovered.

Motion Detection

The next category option available is **Motion Detection**. In the **Motion Detection** category we can configure the motion detection area and settings for this camera.



Tick the **Enable Video Motion** option to enable the motion detection feature for this camera. When the **Draw motion area** option is selected, in the live video feed block, use the left mouse button to draw an area that will be used for motion detection. The area will be highlighted with **Red Blocks**. When the **Erase motion area** option is selected, in the live video feed block, use the left mouse button to erase the area that was used for motion detection. Enter the **Sensitivity** value in the space provided. Click the **Clear** button to completely remove all the red blocks from the video feed.

Click the **Apply** button to apply the modifications made.

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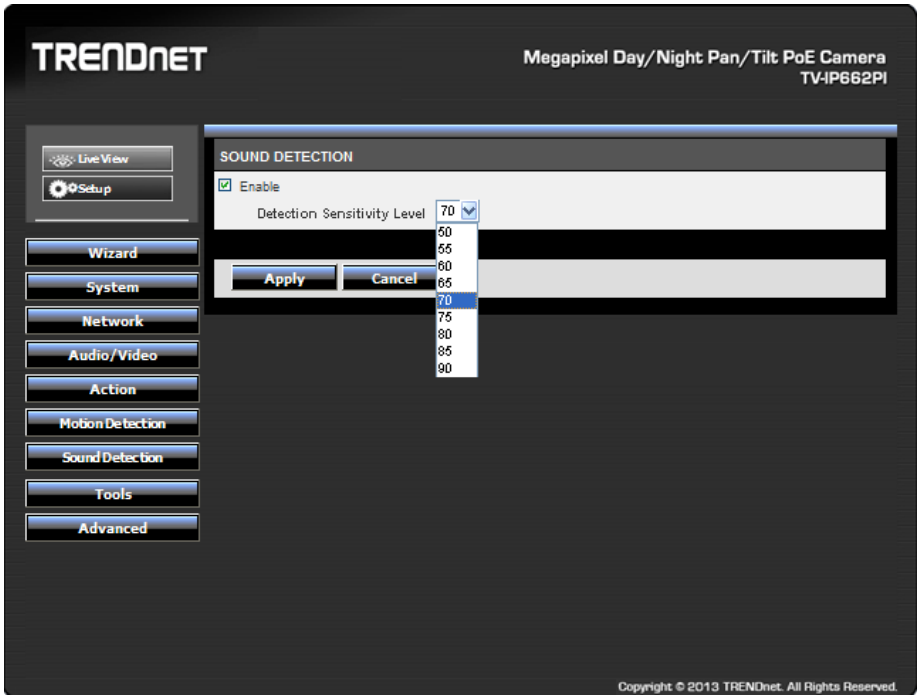
Sound Detection

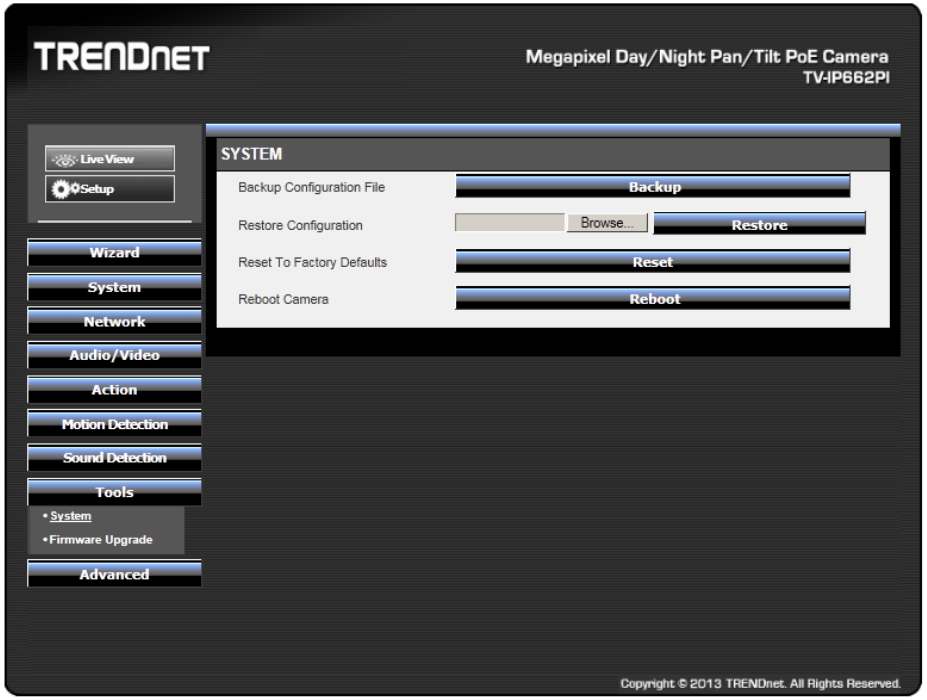
The next category option available is **Sound Detection**. In the **Sound Detection** category we can configure the sound detection settings for this camera.



Tick the **Enable** button to enable the sound detection feature of this camera. Select the sound **Detection Sensitivity Level** value from the drop-down list provided. Configure the sensitivity levels to higher settings in noisy environments. Click the **Apply** button to apply the modifications made.

Tools

The next category option available is **Tools**. In the **Tools** category we can backup and restore configuration files, reset or reboot the camera, and perform a firmware update.



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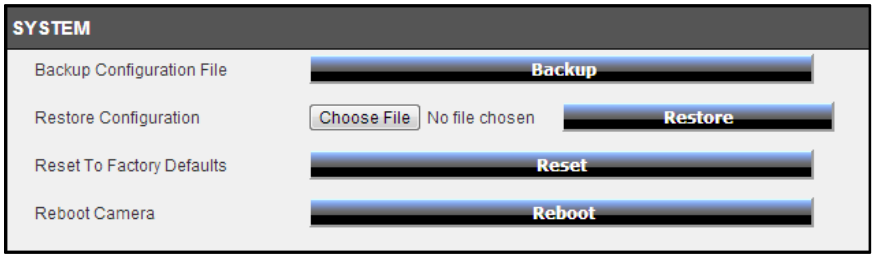
System

In the **System** section we can configure the following.



Click the **Backup** button to back up the camera configuration file that will be saved on the local computer. When you backup the configure file, a dialog box will pop up. Enter a key. This will password-protect the configuration file. You will need to enter the same key when you restore the configure file to the camera.

Prompt Dialog
Please enter a key to save the configuration. And reserve the key carefully for loading the configuration.
abcd12345
OK
Cancel

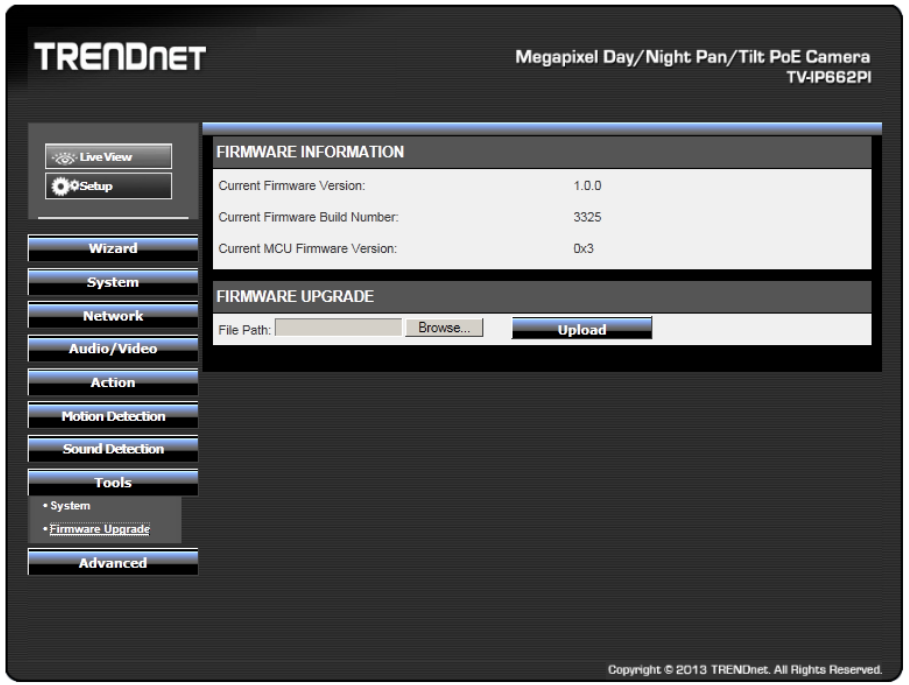
Click the **Choose File** button to navigate to the backed up configuration file on the local computer and then click the **Restore** button to restore the configuration file. You will need to enter the same key that typed in when you backed up the configuration file.

Click the **Reset** button to restore the camera to its factory default settings. **Note:** All configurations that were done on this camera will be lost and the camera will return to its factory default configuration.

Click the **Reboot** button to simply reboot the camera.

Firmware Update

In the **Firmware** section we can view and configure the following.



In the **Firmware Information** section, information regarding the current running firmware version will be displayed.

In the **Firmware Upgrade** section, click the **Choose File** button to navigate to the saved firmware file, located on the local computer, and then click the **Upload** button to upload that firmware to the camera. The camera will then use this firmware file to upgrade the firmware of the camera.

Note: To find the latest firmware available for this camera, visit the TRENDnet website.

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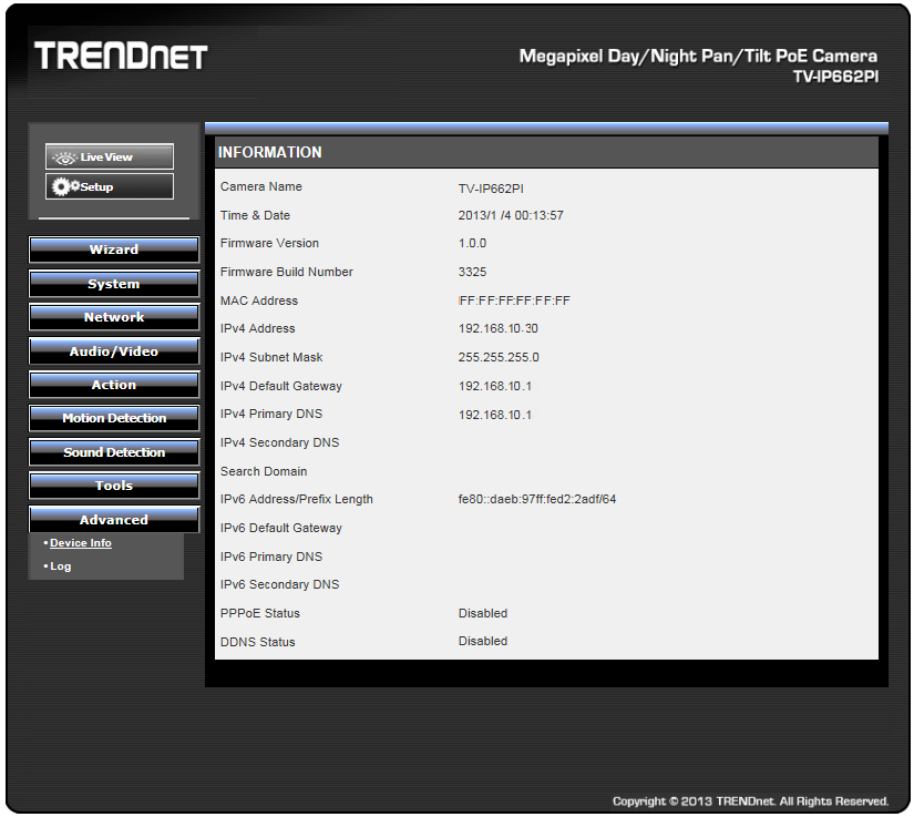
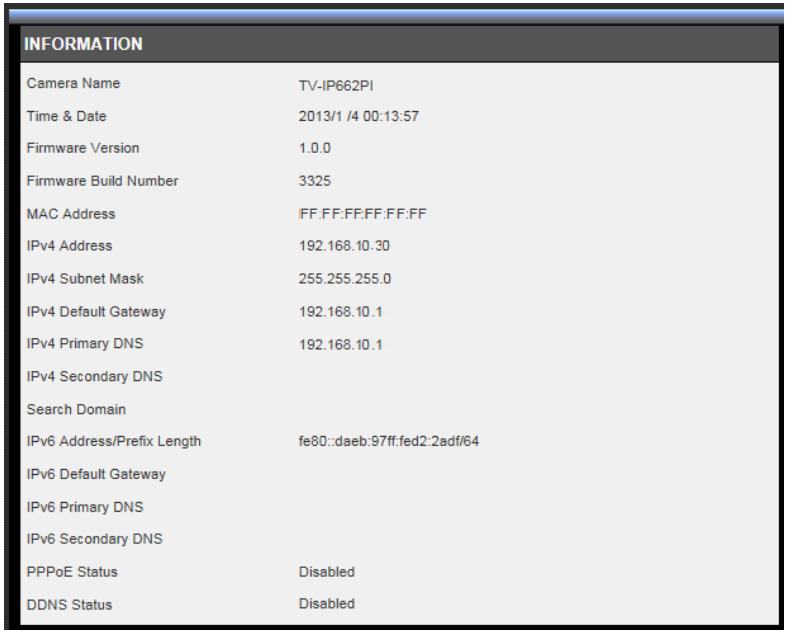
Advanced

The next category option available is **Advanced**. In the **Advanced** category we view more detailed information about the camera as well as the system log.



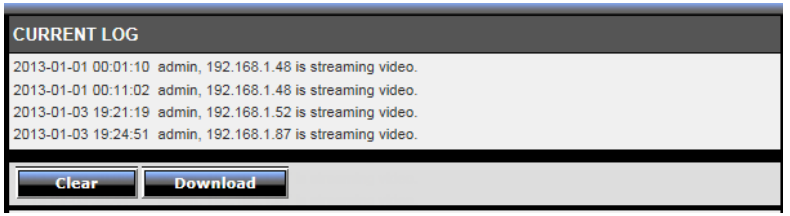
Device Info

In the **Information** section we can view more detailed information about the camera's configuration.



Log

In the **Current Log** section we can view a list of system log entries that was generated based on events that occurred during the runtime of this camera.


CURRENT LOG
2013-01-01 00:01:10 admin, 192.168.1.48 is streaming video.
2013-01-01 00:11:02 admin, 192.168.1.48 is streaming video.
2013-01-03 19:21:19 admin, 192.168.1.52 is streaming video.
2013-01-03 19:24:51 admin, 192.168.1.87 is streaming video.
Clear
Download

Click the **Clear** button to remove all the log entries from the table.

Click the **Download** button export the log table to a text file and then save it to the local computer.

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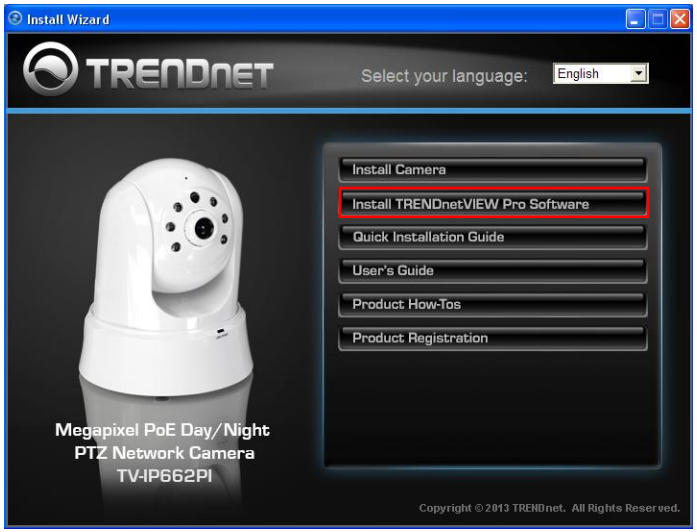
TRENDnetVIEW Pro Software

Click Autorun.

Click on the link, Install **TRENDnetVIEW Pro Software**, to install it.

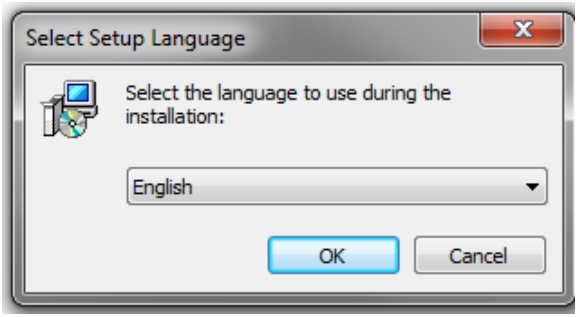


Using the proprietary-based configuration interface

This section describes the how to setup a camera using the TRENDnetVIEW Pro camera monitoring software. To install TRENDnetVIEW Pro on a system running Windows, launch the TRENDnetVIEW Pro installation software on the installation CD-ROM and follow the setup instructions. Once the software is installed, the TRENDnetVIEW Pro camera monitoring utility is ready for use. Add up to 32 network cameras to monitor using the software. Additional software, TRENDnetVIEW Pro Player software is also installed. The TRENDnetVIEW Pro Player is used for playing recorded video from cameras that have been configured to save recorded files.

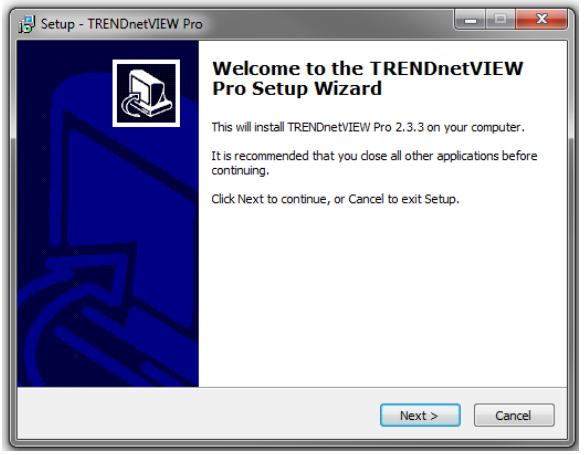
Running the Software

When the wizard starts, you have the option to select a language. The default is **English**.



Alternatively, there are 13 other languages to choose from. Select the one that best suits your needs.

The next screen displays the Welcome screen. Click **Next** to continue.


Setup - TRENDnetVIEW Pro
Welcome to the TRENDnetVIEW Pro Setup Wizard
This will install TRENDnetVIEW Pro 2.3.3 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

Please refer to **TRENDnetVIEW Pro User Guide** for more details on the software.

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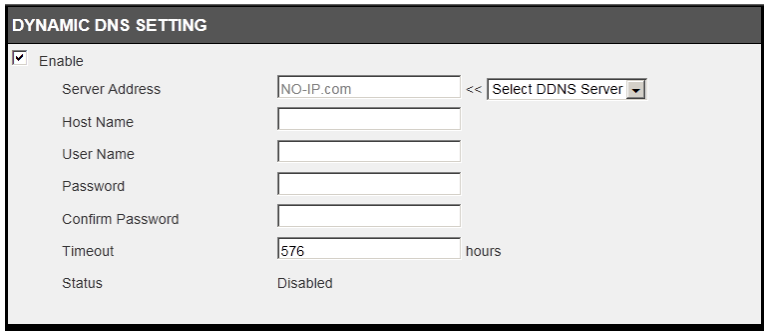
How to setup/access the camera remotely

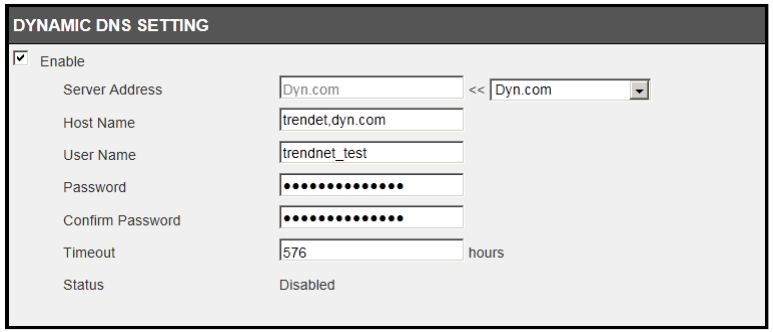
The Dynamic DNS connection can be configured on the camera itself or the home router. An account from any of the listed Dynamic DNS providers is required prior to this operation.

Configure Dynamic DNS on your Camera

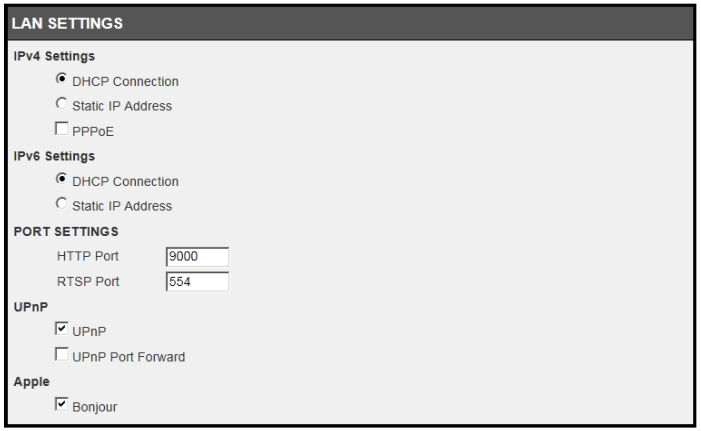
1. Go to camera's **Dynamic DNS** page. Tick **Enable** to activate the feature. Then select a Dynamic DNS provider from the list. After selecting the Dynamic DNS provider, the domain name will be entered into the **Server Address** field.



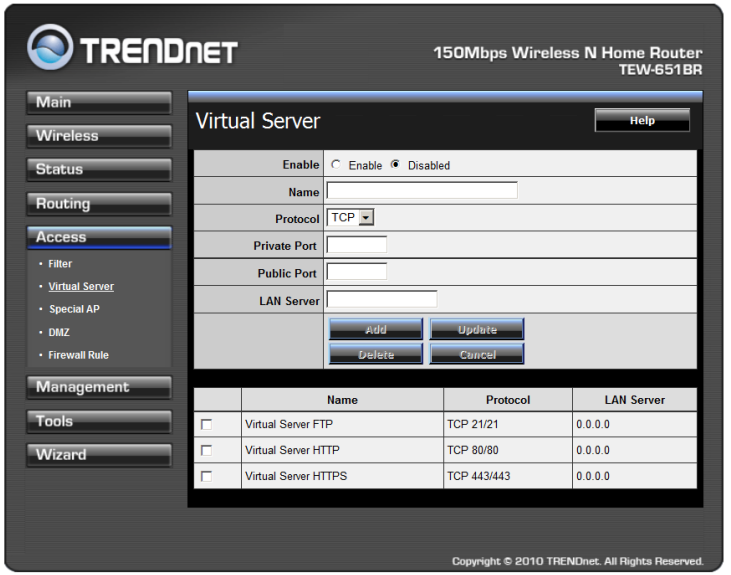
2. Enter Dynamic DNS' Host Name, User Name and Password. Re-enter the password to confirm it.



3. In the **Port Number** section, assign an HTTP port of the camera. The default HTTP Port on the camera is 80. The example shows above is using port number 9000.



4. Open the router's Web configuration page.
(In the example, TRENDnet's TEW-651BR Wireless N Home Router is used)



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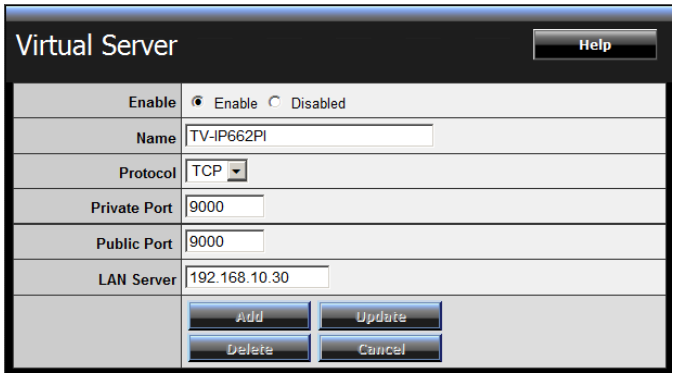
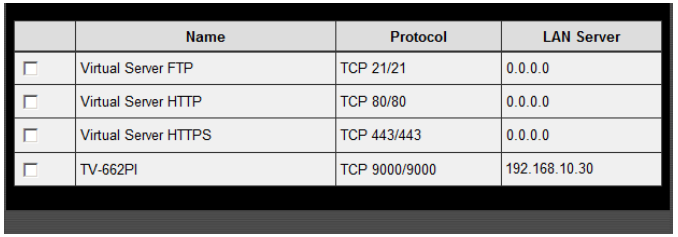
5. Go to **Virtual Server*** section and create a new entry.
Enable: Click **Enable**
Name: Enter the application name (eg. CameraName)
Protocol: Select **TCP**
Private Port: The HTTP port that you assign on your Camera.
Public Port: The port used on remote side to access to your Camera.
LAN Server: The local IP address of your Camera.



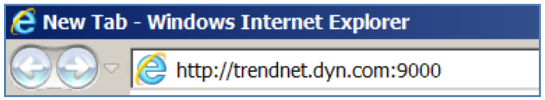
Then click **Add** to add the application.

* Please refer to your router's user's manual for detail **Virtual Server** setting. Some router might use **Port Forwarding** or **Special applications** for this function. The setup steps should be very similar.



	Name	Protocol	LAN Server
☐	Virtual Server FTP	TCP 21/21	0.0.0.0
☐	Virtual Server HTTP	TCP 80/80	0.0.0.0
☐	Virtual Server HTTPS	TCP 443/443	0.0.0.0
☐	TV-662PI	TCP 9000/9000	192.168.10.30

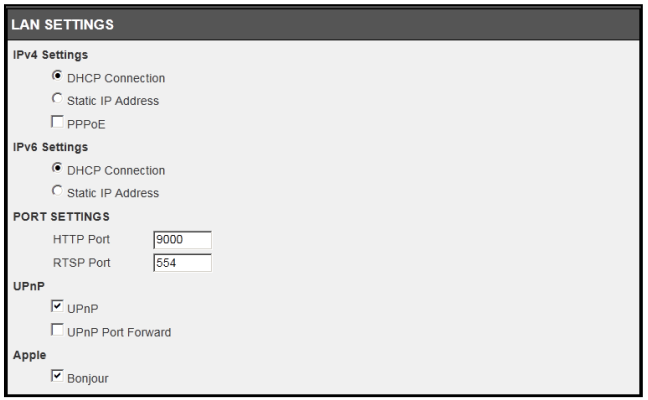
6. Open another web browser and enter your DDNS domain and camera's port number. http://yourDomainName:PortNumber



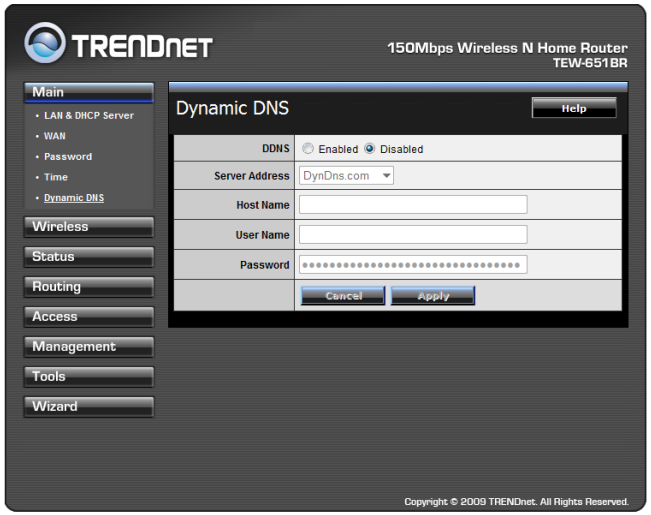
7. Camera's login page will appear.

Configure DDNS on your router

1. Go to Camera's **NetWork → Ports Settings** section, assign a HTTP port for your camera and click **Apply**.



2. Login to your router's web configuration page.
Find the **Dynamic DNS** configuration section.



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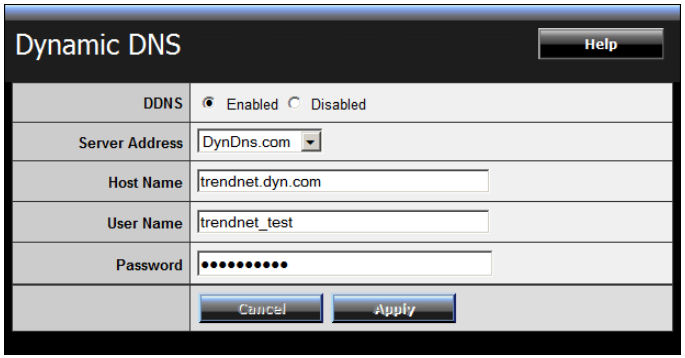
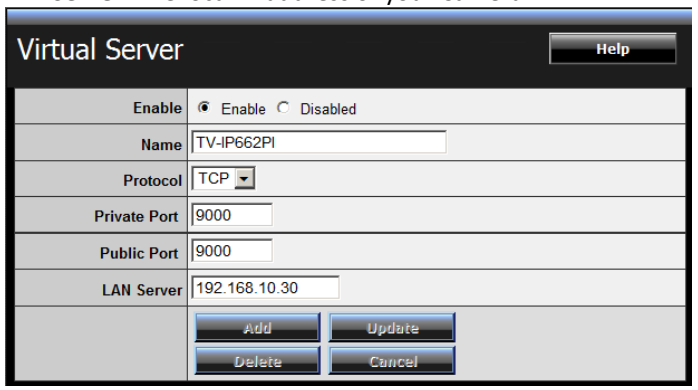
3. Enable DDNS, fill out the following information and then click **Apply**.

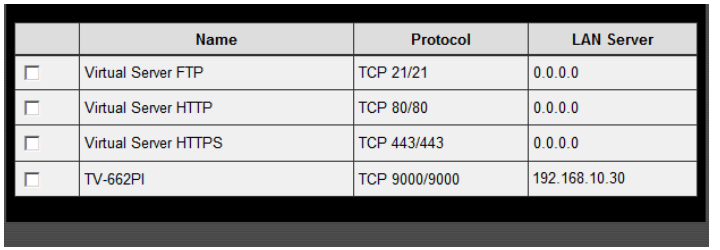


4. Go to **Virtual Server*** section and create a new entry.
   Enable: Click **Enable**
   Name: Enter the application name (eg. Camera Name)
   Protocol: Select **TCP**
   Private Port: The HTTP port that you assign on your Camera.
   Public Port: The port used on remote side to access to your Camera.
   LAN Server: The local IP address of your Camera.



   Click **Add** to add the application.

   * Please refer to your router's user's manual for detail **Virtual Server** setting. Some router might use **Port Forwarding** or **Special applications** for this function. The setup steps should be very similar.



	Name	Protocol	LAN Server
☐	Virtual Server FTP	TCP 21/21	0.0.0.0
☐	Virtual Server HTTP	TCP 80/80	0.0.0.0
☐	Virtual Server HTTPS	TCP 443/443	0.0.0.0
☐	TV-662PI	TCP 9000/9000	192.168.10.30

5. Open another web browser and enter your DDNS domain and camera's port number.
   http://yourDomainName:PortNumber

6. The camera login page will appear.

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Troubleshooting

1. **The Power LED and Ethernet Activity LED do not light up.**

   The power supply or camera might be faulty. Check that the connection to both the power source and the terminal on the back of the camera are secure and that you are using the provided power supply. If the camera is otherwise functioning correctly, the LEDs might have been disabled in the configuration. See the section of this guide on Configuration of System settings.

2. **The camera can't be accessed or access is slow**

   There might be a problem with the network cable. To confirm that the cables are working, ping the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (…bytes = 32 time = 2 ms).

   Another possible problem may be that the network device such as a hub or switch utilized by the Network Camera is not functioning properly. Please confirm the power for the devices are well connected and functioning properly.

3. **The camera can be accessed locally but not remotely**

   This might be caused by a firewall. Check the Internet firewall with your system administrator. The firewall may need to have some settings changed in order for the Network Camera to be accessible outside your local LAN. For more information, please refer to the section about installing your camera behind a router.

   Make sure that the Network Camera isn't conflicting with any Web server you may have running on your network.

   The default router setting might be a possible reason. Check that the configuration of the router settings allow the Network Camera to be accessed outside your local LAN.

4. **White vertical lines appear on the image from the camera**

   It could be that the CMOS sensor (a square panel situated behind the lens that measures the light signals and changes it into a digital format so your computer can present it into an image that you are familiar with) has become overloaded when it has been exposed to bright lights such as direct exposure to sunlight or halogen lights. Reposition the Network Camera into a more shaded area immediately as prolonged exposure to bright lights will damage the CMOS sensor.

5. **The camera images are 'noisy'**

   Often if the camera is in a low-light environment, the images can contain a lot of noise. Try enabling Night mode and see if that improves the image quality. Otherwise, try to use the camera in a location where there is a bit more light.

6. **The camera images are of poor quality.**

   Make sure that your computer's display properties are set to at least 16-bit color. Using 16 or 256 colors on your computer will produce dithering artifacts in the image, making the image look as if it is of poor quality.

   Try also adjusting the brightness, contrast, saturation, light frequency and anti-flicker controls on the Video Settings under the Configuration menu. You may also consider adjusting the resolution of the camera and the compression rate to improve the image.

7. **Video can't be viewed through the web browser interface.**

   ActiveX might be disabled. If you are viewing the images from Internet Explorer make sure ActiveX has been enabled in the Internet Options menu. You may also need to change the security settings on your browser to allow the ActiveX plug-in to be installed.

   If you are using Internet Explorer with a version number lower than 6, then you will need to upgrade your Web browser software in order to view the streaming video transmitted by the Network Camera. Try also viewing the video using Java. Ensure that you have the latest version of Java installed before you do. Go to www.java.com for more information.

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This unit is to be used with the power supply provided by the manufacturer.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

Europe – EU Declaration of Conformity

This device complies with the essential requirements of EMC directive 2004/108/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of EMC directive 2004/108/EC:

EN 60950-1: 2006+A11:2009+A1:2010+A12:2011.

Safety of Information Technology Equipment

EN55022:2010/AC:2011

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

EN55024:2010

Information technology equipment - Immunity characteristics - Limits and methods of measurement

EN61000-3-2:2006+A2:2009

Electromagnetic compatibility (EMC) -- Part 3-2:Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)

EN61000-3-3:2008

Electromagnetic compatibility (EMC) - Part 3-3:Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection

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This device is designed to provide uninterrupted monitoring and/or recording. This device does not off power management functionality such as Off mode or Standby mode.

IMPORTANT NOTE:

NCC AND FCC Warning Statement

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

Note: This country code selection is for non-US models only and is not available to all US models. Per FCC regulation, all WiFi products marketed in the US must be fixed to US operation channels only.

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TV-IP662PI – 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

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V1.0R / 01.15.2014

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